MINUTES OF BUDGET AND CONTROL BOARD MEETING

DECEMBER 3, 1974

The Budget and Control Board met in the Conference Room of the Governor's Office at 11:00 a. m. on December 3, 1974, with the following members in attendance.

Governor John C. West
Senator Rembert C. Dennis
Mr. F. Julian LeaMond
Mr. Henry Mills
Mr. Grady L. Patterson, Jr.

Also in attendance were Messrs. P. C. Smith and W. T. Putnam.

The following business was conducted.

INDUSTRIAL REVENUE BONDS - DARLINGTON COUNTY - On June 11, 1974, the Budget and Control Board approved a Petition of Darlington County for issuing Industrial Revenue Bonds totaling $2,875,000 on behalf of Nytronics Components Group, Inc. However, this approval was given provided the Corporation in question could secure insurance covering debt service payments.

At the present meeting a revised Petition was submitted by Darlington County indicating that insurance had been obtained from Commercial Loan Insurance Corporation. The Petition further indicated that the insurance covered only the debt service due through the year 1994 and, if foreclosure was required, the insurance company would receive all real property. The remaining principal balance of $1,065,000 would be secured solely by the equipment.

Mr. Barney Goldsmith, Chairman of the Board of Directors of Nytronics Components Group, Inc., appeared before the Budget and Control Board to explain the terms of the Petition and of the insurance policy.

In his presentation, Mr. Goldsmith advised that prospective buyers of the bonds would be made completely aware of the weaker security applicable to the bonds maturing after 1994.

Budget and Control Board members took note of the fact that a substantial portion of the bonded indebtedness would be secured only by equipment subject to depreciation and felt that this matter should be brought specifically to the attention of the Darlington County officials. Therefore, tentative approval was given to the Petition with the understanding that Mr. P. C. Smith would contact the Darlington County officials to give them an opportunity to reaffirm their support or to rescind their request.

Data pertaining to this matter has been retained in these files and is identified as Exhibit I.

INDUSTRIAL REVENUE BONDS - BARNWELL COUNTY - The Budget and Control Board approved a Petition for the issuing of Industrial Revenue Bonds totaling $1,000,000 on behalf of Blackville Manufacturing Corporation, a subsidiary of Tiffany Textiles, Inc.

Data pertaining to this matter has been retained in these files and is identified as Exhibit II.

LANDER COLLEGE - SELECTION OF ARCHITECT - The Board approved a request by Lander College for the employment of the architectural firm of Craig and Gaulden for the new Student Center-Administrative Building.

Data pertaining to this matter has been retained in these files and is identified as Exhibit III.

AUTO FLEET MANAGEMENT REPORT - At its meeting of September 24, 1974, the Budget and Control Board requested that Dr. Baron Holmes contact the Council of State Governments to secure information concerning motor vehicle management as practiced in other states. At the present meeting, Dr. Holmes submitted a report of his activities and recommended that a team of experts from other states be brought to South Carolina to review present motor vehicles policies and to make recommendations. Team members, as recommended by Dr. Holmes, would be as follows.

Bob Cornet - Council of State Governments
George Carlton - Minnesota
Mike McGuinn - Georgia

It was estimated that the cost of bringing these individuals to South Carolina would be approximately $500,000.

The Budget and Control Board approved the recommendation of Dr. Holmes and authorized an invitation to the above named individuals.

A copy of Dr. Holmes' report has been retained in these files and is identified as Exhibit IV.

UNIVERSITY OF SOUTH CAROLINA - PROPOSED SALARIES FOR FACULTY OF SCHOOL OF MEDICINE - Dr. William H. Patterson, President of the University of South Carolina, Dr. W. N. Adams-Smith, Vice President for Health Affairs and Dr. John B. Harley, Dean of the School of Medicine, appeared before the Budget and Control Board to request a salary schedule for faculty of the School of Medicine of the University of South Carolina.

In presenting the request, Dr. Adams-Smith advised that officials of the University were unanimous in their opinion that, for the first two years, faculty of the new School of Medicine should not be permitted to augment their salaries through private practice. Therefore, in order to be competitive, it was felt that it would be necessary to supplement established salaries for that period of time. University officials have decided that it will be desirable to permit faculty members to engage, to a regulated degree, in practice after the first two years of operation. At that time, it is proposed that faculty members be permitted to select the plan under which they would individually prefer to operate and the supplements would be terminated.

The Budget and Control Board approved this procedure as well as the salary supplements which were suggested by the University officials.

Data pertaining to this matter, including the schedule of salary supplements, has been retained in these files and is identified as Exhibit

V.

RETIREMENT DIVISION - Upon the recommendation of Mr. Purvis Collins, the Budget and Control Board adopted a regulation relating to the establishment of additional service credit subsequent to retirement and to the payment for such credit.

A copy of the regulation has been retained in these files and is identified as Exhibit VI.

MENTAL RETARDATION - PROPOSED CONSTRUCTION OF RESIDENCES - Dr. James Berry, Chairman of the Mental Retardation Commission, appeared before the Board to request permission to construct four residences for administrative personnel at the Midlands Center. It was proposed that these residences be built to house the following individuals.

Commissioner of Mental Retardation
Director of Medical Services
Superintendent, Midlands Center
Maintenance Engineer, Midlands Center

The total cost of the four dwellings was estimated by the Department of Mental Retardation to be $198,733.00, while the Engineering Section of the State Auditor's Office estimates that the cost would be in excess of $260,000.00. According to Dr. Berry, the monthly charge for these living units would range from $100 to $125.

After a lengthy discussion, Board members unanimously agreed that the entire question of housing for State employees should be reviewed and that an over-all policy should be developed.

Governor West appointed a committee to study the present status of housing for State employees and to initiate the development of a Budget and Control Board policy pertaining to this matter. Individuals appointed to this committee are as follows.

W. T. Putnam - Assistant State Auditor, Chairman
Dr. Baron Holmes - Director of Research, Ways and Means Committee
Mac Johnson - Director of Research, Finance Committee

Data pertaining to the requests of the Mental Retardation Commission has been retained in these files and is identified as Exhibit VII.

DEPARTMENT OF CORRECTIONS - RESIDENCE FOR DIRECTOR - Mr. William Leeke appeared before the Budget and Control Board to request permission to proceed with the construction of a new home for the Director of the Department of Corrections. (Bond funds totaling $50,000 were provided by the General Assembly for this purpose.)

Board members unanimously agreed that approval of this request should be deferred pending receipt of a report from the committee appointed to study housing for State employees. (See preceding paragraph)

DEPARTMENT OF CORRECTIONS - APPROVAL OF ARCHITECTS - Mr. William Leeke presented the Budget and Control Board with a list of six projects and requested approval for architectural firms for each. Although Board members had not previously had an opportunity to study these requests and the State Auditor's Office had not received the data in sufficient time to study the proceedings, Mr. Leeke assured the Board that all requirements of law had been met.

The following architects were recommended.

Lucas, Stubbs & Hemphill - Regional Correctional Center (Greenwood)
Lockwood - Greene - Regional Correctional Center (Spartanburg)
Freeman, Wells & Major - Regional Correctional Center (Greenville)
Geiger, McElveen, & Kennedy and Pearlstine & Anderson - Medical Complex (Columbia)
Triad Architectural Association - Central Supply Warehouse (Columbia)
Bruce Flemming - Two Dormitories - Goodman Correctional Institute (Columbia)

The Board gave tentative approval to the selection of the architects but directed Mr. P. C. Smith to study the requests and to refer the matter to the entire Board in the event of any question.

Data pertaining to this matter has been retained in these files and is identified as Exhibit VIII.

COMMISSION ON HIGHER EDUCATION - PERMANENT IMPROVEMENT REQUESTS - Through an informal procedure, permanent improvement requests of the various universities and colleges have been sent to the Commission on Higher Education prior to submission to the Budget and Control Board. The Commission on Higher Education has enquired as to whether the Budget and Control Board will again require this procedure. The Commission has further advised that formal action by the Budget and Control Board, requiring the submission of these requests, would strengthen the position of that Agency.

Budget and Control Board members unanimously agreed that the submission of permanent improvement requests should be routed through the Commission on Higher Education and, therefore, voted to formally adopt this procedure.

BUDGET REVIEW - Upon a motion by Mr. Henry Mills, the Budget and Control Board unanimously approved a request from Governor-elect Edwards that final approval of budget recommendations for the year 1975-76 be delayed one week to give him and his staff an opportunity to review the proposals.

INAUGURAL EXPENSES - The Budget and Control Board approved the payment of appropriate inaugural expenses from the Civil Contingent Fund.

SILVER SERVICE - U. S. S. SOUTH CAROLINA - Governor West reported that he had received an enquiry from the Navy League as to whether the State of South Carolina wished to provide the silver service for the U. S. S. South Carolina which is to be commissioned during January, 1975. The Governor explained that it was traditional for the various states to provide the silver service for ships bearing their names and that arrangements would be made to return the silver to South Carolina when the ship is decommissioned.

The Board approved the expenditure of $10,000 for this purpose and requested Mr. Furman McEachern to find some source of funds from which

this money could be paid.

GENERAL SERVICES DIVISION - Mr. Furman McEachern, Director of the General Services Division, appeared before the Board to present the following items of business.

ANTICIPATED BUDGET DEFICIT - Mr. McEachern presented a chart showing that energy consumption for the Capitol Complex had been decreased by 35 percent during the past twelve months but that a rate increase of 115 percent during the same period will create a deficit for the fiscal year 1974-75 of approximately $292,000.

Board members commended Mr. McEachern for his accomplishment in effecting a decrease in consumption and agreed to endorse a request for a supplemental appropriation when the General Assembly convenes.

ANTICIPATED BUDGET DEFICIT - PRINTING - Mr. McEachern reported that legislative printing is up 30 percent over last fiscal year and that printing costs are up approximately 200 percent. Therefore, he anticipates a deficit for printing of approximately $200,000 for the fiscal year 1974-75.

Board members agreed to endorse a request for a supplemental appropriation to cover this item.

INDUSTRIAL COMMISSION RELOCATION - Mr. McEachern reported that he is continuing to receive requests from the Industrial Commission for relocation to the Dutch Plaza area. The latest request would require the addition of $42,436 to the budget request for the fiscal year 1975-76.

It was agreed that the budget recommendations were too far advanced to consider this request and that it would be necessary for the matter to be presented directly to the Ways and Means Committee.

TORT INSURANCE - The Budget and Control Board approved a recommendation of Mr. McEachern that the State draw its own contract for tort insurance to be offered to various entities at a premium cost which would protect the reserves of the insurance fund.

Data pertaining to the various items of business of the General Services Division has been retained in these files and is identified as Exhibit IX.

BUDGET REPORT - Mr. P. C. Smith furnished each Budget and Control Board member with data pertaining to anticipated revenues for the fiscal year 1975-76 and an amended budget recommendation for the same period. The combined data showed that the adjusted figures would produce a balance of $194,967.

Governor West reported that certain members of the Higher Education Commission were concerned that the Budget and Control Board might be departing from the formula which had previously been developed for the allocation of funds to the colleges and universities. He suggested that Mr. Smith should meet with officials of the Higher Education Commission and some of the institutions of higher learning to see if some accord could be reached in this matter.

It was agreed that the Board members would accept the latest recommendation as information but that formal approval would be deferred until a subsequent meeting.

The data furnished by Mr. Smith has been retained in these files and is identified as Exhibit X.

Mr. P. C. Smith advised that all additional items of business concerned personnel matters; and the Board, therefore, voted to declare itself in Executive Session.

Exh I
Dec. 3, 1974

STATE OF SOUTH CAROLINA

SUPPLEMENTAL RESOLUTION

STATE OF SOUTH CAROLINA BUDGET AND CONTROL BOARD

WHEREAS, heretofore, the Darlington County Commission (the County Board) did, pursuant to Act No. 103 of the General Assembly of the State of South Carolina for the year 1967, as amended (the Act), petition the State Budget and Control Board of South Carolina (the State Board) seeking the approval of the State Board to an undertaking by the County Board pursuant to the Act; and

WHEREAS, the proposed undertaking consists of the County Board financing the acquisition, improvement and further equipping of the existing facilities for the manufacture of electronic components owned and operated by Nytronics Components Group, Inc., a Delaware corporation, (the Lessee), in Darlington County; and the County Board has agreed to finance the proposed acquisition, improvement and further equipping of the said existing facilities (the 7 1/2 acre plant site and the buildings, machinery and equipment constituting the said facilities as improved and expanded, being hereinafter referred to as the Project) through the issuance of $2,875,000 industrial revenue bonds pursuant to the Act; and

WHEREAS, the proposed undertaking was approved by the State Board at its meeting held on June 11, 1974, subject to certain conditions outlined in the Resolution of the State Board adopted at said meeting.

WHEREAS, the County Board has now advised the State Board by Supplemental Petition dated November 18, 1974, of certain changes in the said undertaking as originally proposed,

NOW, THEREFORE, BE IT RESOLVED BY THE STATE BUDGET AND CONTROL BOARD IN MEETING DULY ASSEMBLED:

1. It has been found and determined by the State Board that the statement of facts set forth in the recitals of this Resolution are in all respects true and correct.

2. After review of the matters set forth in the said Supplemental Petition, the State Board reaffirms the approval of the proposed undertaking heretofore given on June 11, 1974.

SINKLER GIBBS SIMONS & GUÉRARD
PROFESSIONAL ASSOCIATION
ATTORNEYS & COUNSELLORS AT LAW
2 PRIOLEAU STREET
CHARLESTON, S. C. 29402

POST OFFICE BOX 340

TELEPHONE 722-3366
AREA CODE 803

January 11, 1975

Honorable P. C. Smith
State Auditor
Post Office Box 11333
Columbia, South Carolina 29211

Dear Pat:

Re: $2,875,000 Darlington County, South Carolina,
First Mortgage Industrial Revenue Bonds,
(Nytronics Components Group, Inc. - Lessee)

You have advised that the State Board reaffirmed its approval of the Nytronics Project after considering the matters set forth in the Supplemental Petition of the Darlington County Commission dated November 18, 1974. Accordingly, we have prepared and now enclose the original and twelve copies of a short Supplemental Resolution of the State Board to that effect. If it appears in order, will you please return twelve certified copies to me.

You will recall that the Supplemental Petition set forth, among other things, that the last maturing $1,065,000 of bonds might be deprived of the security afforded by the land and buildings under certain conditions. In order to point up to the bond purchasers this distinction between the first maturing $1,810,000 of bonds and the last maturing $1,065,000 of bonds, we are describing the first maturing $1,810,000 of bonds as Series A bonds and the last maturing $1,065,000 of bonds as Series B bonds. In this fashion, I feel that the persons who shall become holders of the Series B bonds are put on notice by the bond itself that their rights vary from the rights of the other bondholders.

Very truly yours,

Tbbg

TBG:jr
Encs.

PS: Pat, please hold the twelve certified copies until I can get in touch with you on Monday by telephone.

TBG

EXHIBIT I
DEC. 3, 1974

STATE OF SOUTH CAROLINA

COUNTY OF DARLINGTON

TO THE STATE BUDGET AND CONTROL BOARD OF SOUTH CAROLINA	SUPPLEMENTAL PETITION

This Supplemental Petition of the Darlington County Commission (the County Board) respectfully shows:

1. The County Board is the governing body of Darlington County, South Carolina, as established by law, and such is the County Board referred to in Act No. 103 of the 1967 Acts of the South Carolina General Assembly, as amended (the Act).

2. Pursuant to the requirements of the Act, the County Board has heretofore petitioned the State Budget and Control Board (the State Board) for its approval of the Project to be financed out of the proceeds of a proposed issue of $2,875,000 Darlington County, South Carolina, First Mortgage Industrial Revenue Bonds, Series 1974 (Nytronics Components Group, Inc. - Lessee), pursuant to the Act, and by Resolution adopted on June 11, 1974, the State Board approved the Project and the proposed financing thereof, as aforesaid, including changes in any details of said financing as finally consummated which do not materially affect the said undertaking. The State Board's approval was given subject to compliance with the following conditions:

(a) the obligations of the Lessee under the Lease shall be unconditionally guaranteed by Nytronics, Inc., a Delaware corporation, under a Lease Guaranty Agreement between the said Nytronics, Inc., and the County, and

(b) the Lessee shall obtain for the protection of the bondholders, lease insurance coverage in the amount of $1,800,000.

3. The County Board is advised by Nytronics Components Group, Inc. that the final details of the financing have now been agreed to, including an unconditional guarantee by Nytronics, Inc., and lease insurance coverage in the amount of $1,800,000. In its original Petition, the County Board stated that the bonds would bear interest at the rate of approximately Eight per centum (8%) per annum, and would be sold at an eight per cent (8%) discount. Under the terms now agreed upon, the bonds will bear interest at the rate of Eight and one-half per centum (8 1/2%) per annum, and will be sold at a discount of sixteen and three-tenths per cent (16.3%), or $468,625. The bonds will mature in the years 1975 through 1999, as follows:

YEAR	AMOUNT	YEAR	AMOUNT
1975	$ 35,000	1988	$110,000
1976	40,000	1989	115,000
1977	45,000	1990	130,000
1978	50,000	1991	135,000
1979	50,000	1992	150,000
1980	55,000	1993	165,000
1981	60,000	1994	175,000
1982	70,000	1995	190,000
1983	70,000	1996	210,000
1984	80,000	1997	220,000
1985	85,000	1998	220,000
1986	90,000	1999	225,000
1987	100,000		

4. The County Board is advised that Commercial Loan Insurance Corporation (CLIC) has issued its commitment for lease guaranty insurance in the aggregate amount of the combined principal of and interest on the bonds which will mature in the years 1975 through 1994. The options obtained by CLIC are explained in the Offering Circular as follows:

"CLIC has an option, exercisable by CLIC in the event of a default by Company to require a conveyance to CLIC of marketable title to the Project, free and clear of all liens and encumbrances, except those approved by CLIC prior to issuance of the Bonds. If CLIC exercises its option, it will pay to the Trustee for the benefit of the holders of Bonds maturing in the years 1975 through 1994, inclusive, only (Bond numbers 1 to 362) a sum not to exceed the principal amount of the Bonds maturing in the years 1975 through 1994, inclusive, plus accrued interest on those Bonds, only to the date of purchase.

The $1,065,000 principal amount of the Bonds maturing in the years 1995 through 1999, inclusive are not insured as to either principal or interest. In the event that CLIC exercises its option the Bonds maturing in the years 1995 through 1999, inclusive, shall no longer be secured by a first mortgage on the Factory Building, and shall be secured solely by the Equipment."

The County Board is submitting this Supplemental Petition in order to advise the State Board of the interest rate and discount at which the bonds will be sold and of the fact that the lease guaranty insurance does not cover the $1,065,000 of bonds maturing in the years 1995 through 1999, which, in the event that CLIC exercises its option to purchase the land and the buildings included in the Project, shall be secured solely by a lien on equipment.

WHEREFORE, the County Board prays that the State Budget and Control Board after consideration of the matters set forth hereinabove in this Supplemental Petition, reaffirm the approval

of the County Board's undertaking heretofore given by the Resolution adopted by the State Budget and Control Board on June 11, 1974.

Respectfully submitted,

DARLINGTON COUNTY, SOUTH CAROLINA

By Harrell L. Gardner
Chairman, Darlington County Commission

Attest:

Billie S Norwood
Clerk, Darlington County Commission

STATE OF SOUTH CAROLINA

COUNTY OF DARLINGTON

I, the undersigned, Clerk of the Darlington County Commission, Darlington County, South Carolina, DO HEREBY CERTIFY:

That the foregoing is a true, correct and verbatim copy of the Supplemental Petition approved by the Darlington County Commission at a duly called and regularly held meeting at which all members attended and remained throughout on November 18, 1974.

IN WITNESS WHEREOF, I have hereunto set my Hand and the Seal of the said Darlington County Commission, Darlington County, South Carolina, this 18 day of November, A. D. 1974.

(SEAL)

Billie S. Norwood
Clerk, Darlington County Commission

AMOUNT	MUNICIPALITY	RATE: FIXED / OPT. | MULT. / SPLIT | NOT EX.	INTEREST	DATE & HOUR OF SALE
$ 2,875,000	Nytronics Components Group, Inc.			

DATED 8/1/74 / DUE 8/1 75/99	PURPOSE Darlington, South Carolina	FORM OF BOND: DENOM. / COUPON FORM / REG. PRIN.	REG. PRIN. & INT. / FULLY REG. / INTERCHANGEABLE

UNLIMITED TAX / SOLELY REVENUE / LIMITED TAX	MOODY / S & P	BID LIMITS	LEGAL INVEST	BID FORMS FUR. / SEALED BIDS / AUCTION

L. O.
COST

CERTIFIED CHECK $

DRAWN TO

BONDS SOLD UNDER PAR'	DELIVERY | WHEN / WHERE	BONDS FURNISHED / COST	PRIN. & INT. PAYABLE

BIDS ADDRESSED TO

BIDS TO BE SUBMITTED BY

OPTIONAL PROVISIONS

TAX FREE IN STATE OF ISSUE

MARKET PROTECTION

1st COUPON

LAST SALE

AVERAGE LIFE—
YEARS MOS. .05

REMARKS

AMOUNT	8/1	BOND YEARS	RATE	BASIS	PRICE	RATE	BASIS	PRICE	RATE	BASIS	PRICE	
	1971											1971
	1972											1972
	1973											1973
	1974						prin &	int				1974
35	1975	35	8.50				279375					1975
40	1976	80					281400					1976
45	1977	135					283000					1977
50	1978	200					284175					1978
50	1979	250					279925					1979
55	1980	330					280675					1980
60	1981	420					281000					1981
70	1982	560					285900					1982
70	1983	630					279950					1983
80	1984	800					284000					1984
85	1985	935					282200					1985
90	1986	1080					279975					1986
100	1987	1300					282325					1987
110	1988	1540					283825					1988
115	1989	1725					279475					1989
130	1990	2080					284700					1990
135	1991	2295					278650					1991
150	1992	2700					282175					1992
165	1993	3135					284425					1993
175	1994	3500					280400					1994
190	1995	3990					280525					1995
210	1996	4620					284375					1996
220	1997	5060					276525					1997
220	1998	5280					257400					1998
225	1999	5625					244125					1999
	2000											2000
	2001											2001
	2002	48305										2002
	2003											2003
	2004											2004
	2005											2005
	2006											2006
	2007											2007
	2008											2008
	2009											2009
	2010											2010
	2011											2011
	2012											2012
	2013											2013

Gross Prod. as of	5625X 85.00	478,125.00	
Expenses		468,625.00	
Net Prod. as of		946,750 NIC	9.95
Profit			
Bid			
Gross Int. Cost			
Prem. or Disc.			
Net Int. Cost			
NIC as of			

Proposed Official Statement Dated September 23, 1974

NEW ISSUE

A Moody
A S&P

In the opinion of Bond Counsel, interest on the Bonds is exempt from all present Federal income taxes under existing statutes, regulations and court decisions.

Matthews & Wright

$31,130,000*

TULSA INDUSTRIAL AUTHORITY

(TULSA, OKLAHOMA)

First Mortgage Hospital Revenue Bonds, Series 1974
(Hillcrest Medical Center Issue)

Dated: October 1, 1974 — Due: April 1, as shown below

Principal and semi-annual interest (payable April 1, 1975 and each October 1 and April 1 thereafter) are payable at the corporate trust office of National Bank of Tulsa, Tulsa, Oklahoma, the Trustee, or at the corporate trust office of The Chase Manhattan Bank (National Association), New York, New York. The Bonds are issuable in the form of coupon Bonds of $5,000 denominations or as fully registered Bonds in denominations of $5,000 or any multiple thereof exchangeable for coupon Bonds. The Bonds are subject to redemption prior to maturity as described herein.

The Bonds shall be special obligations of the Tulsa Industrial Authority, Tulsa, Oklahoma, equally and ratably payable solely from the rentals and other net revenues derived by the Authority from the hospital facilities being leased to Hillcrest Medical Center and shall be secured under and as provided in the Trust Agreement, the Lease and the Guaranty, as each is referred to herein.

Amount	Due	Interest Rate	Yield or Price
$1,040,000	1978		
1,040,000	1979		
1,040,000	1980		
1,040,000	1981		
1,040,000	1982		

Amount	Due	Interest Rate	Yield or Price
$1,040,000	1983	7.70	Par
1,040,000	1984	7.70	"
1,040,000	1985	7.70	7.80
1,040,000	1986	"	"
1,040,000	1987	"	"

Amount	Due	Interest Rate	Yield or Price
$ 7,280,000	1994		
13,450,000	2007		

1990 8 1/4 Par
1996 8.60 Par

(Accrued interest to be added)

These Bonds are offered when, as and if issued and received by the Underwriters, subject to prior sale, to withdrawal or modifications of the offer without notice, and to the approval of legality of the Bonds by Messrs. Mitchell, Petty & Shetterly, Bond Counsel, New York, New York, and of Samuel C. Stone, Counsel for the Authority and Bond Counsel, Tulsa, Oklahoma. Certain legal matters will be passed upon for the Underwriters by their counsel, Messrs. Hawkins, Delafield & Wood, New York, New York. It is expected that the Bonds in definitive form will be available for delivery in New York, New York, on or about October 23, 1974.

Goldman, Sachs & Co.

October , 1974

Statements herein, while not guaranteed, are based upon information which we believe to be reliable.

* This and other numbers subject to change.

THIS PROPOSED OFFICIAL STATEMENT WITH THE INFORMATION AND OTHER MATERIALS CONTAINED HEREIN IS TENTATIVE AND IS SUBJECT TO COMPLETION AND AMENDMENT. Concurrently with the sale of the Bonds the Authority will make available its final Official Statement with respect to the Bonds. This Proposed Official Statement is for preliminary Information purposes only and does not constitute an offer to sell or the solicitation of an offer to buy Bonds.

NEW ISSUE

STANDARD & POOR'S A
MOODY'S A

Statement of Tax Exemption - In the opinion of Bond Counsel, the interest on the Bonds is exempt from all present Federal income taxes under existing statutes and existing regulations and rulings of the Internal Revenue Service.

$7,700,000

LOUISIANA PUBLIC FACILITIES AUTHORITY

FIRST MORTGAGE HOSPITAL GROSS REVENUE BONDS

ST. CHARLES GENERAL HOSPITAL 1974 SERIES

Dated: October 1, 1974

Due: January 1, as shown below

Principal and interest (July 1, 1975 and each January 1 and July 1 thereafter to and including January 1, 2005) shall be payable at the American Bank and Trust Company of Baton Rouge, Louisiana; or, at the option of the holder, at the Fiscal Agency of the State of Louisiana in the City of New York; or, in the event of the discontinuance of that Agency, then at The Chase Manhattan Bank, National Association, New York City.

AMOUNTS, COUPONS, MATURITIES, AND YIELDS
$1,030,000 Serial Bonds

Amount	Coupon	Maturity	Yield
$ 75,000	6.50%	1-1-77	6.50%
80,000	6.65%	1-1-78	6.65%
85,000	6.75%	1-1-79	6.75%
90,000	6.90%	1-1-80	6.90%
95,000	7.00%	1-1-81	7.00%
105,000	7.15%	1-1-82	7.15%
110,000	7.25%	1-1-83	7.25%
120,000	7.40%	1-1-84	7.40%
130,000	7.50%	1-1-85	7.50%
140,000	7.60%	1-1-86	7.60%

$6,670,000 - 9.00% Term Bonds Due January 1, 2005 170K 1013

Accrued Interest To Be Added

The Bonds are being offered subject to the unqualified opinion of Fagin, Brown, Bush, Selvidge & Tinney, Oklahoma City, Oklahoma and McCollister, Belcher, McCleary & Fazio, Baton Rouge, Louisiana.

Stifel, Nicolaus & Company Inc.
OKLAHOMA CITY, OKLAHOMA

Preliminary Official Statement Dated October 18, 1974

AMOUNT	MUNICIPALITY	RATE: FIXED / OPT. | MULT. / SPLIT | NOT EX.	INTEREST	DATE & HOUR OF SALE
$ 475,580,000	New York City			10/16/74 10 CDST

DATED / DUE	PURPOSE	FORM OF BOND: DENOM. / COUPON FORM / REG. PRIN.	REG. PRIN. & INT. / FULLY REG. / INTERCHANGEABLE
10/15/74 / 4/15 / 76/15			

UNLIMITED TAX / SOLELY REVENUE / LIMITED TAX	MOODY A / S & P A	BID LIMITS	LEGAL INVEST	BID FORMS FUR. / SEALED BIDS / AUCTION

L O COST | CERTIFIED CHECK $ | DRAWN TO

BONDS SOLD UNDER PAR* | DELIVERY WHEN 11/8/74 WHERE NYC | BONDS FURNISHED COST | PRIN. & INT. PAYABLE

BIDS ADDRESSED TO | BIDS TO BE SUBMITTED BY | OPTIONAL PROVISIONS

TAX FREE IN STATE OF ISSUE | MARKET PROTECTION

1st COUPON | LAST SALE

AVERAGE LIFE— YEARS MOS DS | REMARKS

AMOUNT	4/15	BOND YEARS	RATE	BASIS	PRICE	RATE	BASIS	PRICE	RATE	BASIS	PRICE	
	1971											1971
#214	1972					#215			#216			1972
141,380,000	1973					109,600,000			224,600,000			1973 TD
	1974											1974
	1975											1975
4320	1976	Sold	775	650	3/8	9400	8		65300	8		1976 3/8
	1977			70								1977
	1978			90					47000			1978
	1979			100								1979
	1980											1980
	1981			105								1981
	1982			10								1982
	1983			15		8400						1983 11.26
	1984			20								1984 par
	1985			25		5400		2500				1985
	1986			30								1986
	1987			35								1987
	1988			40								1988
	1989			45								1989 98
	1990			750								1990
	1991											1991
	1992			755								1992
	1993											1993
	1994			760								1994
	1995				(11.26 @ 8.70 L conc.							1995
	1996			765								1996
	1997	1850	750									1997
	1998			770								1998
	1999		625	740								1999
3920	2000											2000
	2001											2001
	2002											2002
	2003											2003
	2004											2004
1720	2005											2005
	2006	Sold										2006
	2007											2007
	2008											2008
	2009											2009
	2010											2010
	2011											2011
	2012											2012
	2013											2013

Gross Prod. as of	14				
Expenses 900	15				
Net Prod. as of					
Profit					
Bid					
Gross Int. Cost					
Prem. or Disc					
Net Int. Cost					
NIC as of					

Interest exempt, in the opinion of Bond Counsel, under existing laws from Federal, New York State and New York City income taxes, except that no opinion is expressed with respect to Federal income tax exemption in the case of any person who is, or is a related person with respect to, a substantial user of any facility provided with the proceeds of the 1974 Series C Bonds.

NEW ISSUE

BAA Moody September 2

$125,000,000

New York State Urban Development Corporation

General Purpose Bonds, Series C, 1974

Dated September 1, 1974

Due September 1, as show

The 1974 Series C Bonds due September 1, 1985, September 1, 1987 and September 1, 1989 are not redeemable prior to maturity. The 1974 Series C Bonds due September 1, 1999 may be redeemed at the option of the Corporation on or after September 1, 1989, as a whole or in part, at the prices, plus accrued interest, as set forth in the Official Statement, and an amount of such Bonds due September 1, 1999 equal to the mandatory Sinking Fund requirement, as set forth in the Official Statement, shall be redeemed (and up to an equal additional amount may be redeemed) on September 1, 1990 and on September 1 in each year thereafter at 100%, plus accrued interest.

The principal or redemption price, if any, of and interest on 1974 Series C coupon Bonds issued in bearer form and interest on 1974 Series C Bonds registered as to principal only are payable at the trust office of The Bank of New York in New York, New York. The principal or redemption price, if any, of and interest on fully registered 1974 Series C Bonds and the principal or redemption if any, of 1974 Series C coupon Bonds registered as to principal only, other than to bearer, are payable at the corporate trust office of Morgan Guaranty Trust Company of New York New York, New York. The 1974 Series C Bonds in coupon and registered form are interchangeable as provided for in the 1974 Series C Resolution.

MORGAN GUARANTY TRUST COMPANY OF NEW YORK, N.Y., Trustee

Legal investment in New York State, pursuant to Section 23 of the New York State Urban Development Corporation Act, for the persons, public bodies, institutions, insurance companies and fiduciaries as set forth in the Official Statement.

The 1974 Series C Bonds are direct and general obligations of the Corporation, a corporate governmental agency of the State of New York, and the Corporation's full faith and credit is pledged for the payment of the principal, redemption price and interest on the 1974 Series C Bonds. *The Corporation has no taxing power. The 1974 Series C Bonds are not a debt of the State of New York and the State is not liable thereon. The Official Statement contains information relating to the Corporation's commitments, financial position and risks associated with its present stage of development.* The 1974 Series C Bonds, together with the Corporation's General Purpose Bonds, Series A, 1972, and all other Bonds subsequently issued under the General Purpose Bond Resolution described in the Official Statement, are secured by the 1972 Debt Service Reserve Fund established and maintained by the Corporation for the benefit of the holders of all such Bonds. Section 20(3) of the State Urban Development Corporation Act makes provision for the maintenan 1972 Debt Service Reserve Fund by appropriations by the State of amounts eq deficiencies, if any, therein upon certification by the Chairman of the Corporat Governor and the State Director of the Budget specifying the amount of such d Under the Constitution of the State of New York, all moneys to be paid to the C pursuant to Section 20(3) of the Act must first be appropriated by the State I for such purpose. Accordingly, such provision of the Act does not constitute a forceable obligation of the State or create a debt enforceable against the State und 16 of Article VII of the State Constitution.

$25,000,000	8⅝%	1974 Series C Bonds due September 1, 1985 — Price 98%
$25,000,000	8⅞%	1974 Series C Bonds due September 1, 1987 — Price 98%
$25,000,000	9%	1974 Series C Bonds due September 1, 1989 — Price 98%
$50,000,000	9⅜%	1974 Series C Bonds due September 1, 1999 — Price 98%

LESS 2 pts

(All Bonds Plus Accrued Interest)

The 1974 Series C Bonds are offered when, as and if issued and received by the Underwriters and subject to the approval of legality by Messrs. Sykes, Galloway & Dikeman, New York, New York. The offering of the 1974 Series C Bonds is made only by means of the Official Statement, copies of which may be obtained from such of the undersigned as are registered dealers in securities in this State. It is expected that the 1974 Series C Bonds in definitive form will be available for delivery in New York, New York on or about October 1, 1974.

The First Boston Corporation

First National City Bank — The Chase Manhattan Bank, N.A. — Bankers Trust Company

Salomon Brothers — Merrill Lynch, Pierce, Fenner & Smith Incorporated — Blyth Eastman Dillon & Co. Incorporated

Chemical Bank — Halsey, Stuart & Co. Inc. Affiliate of Bache & Co. Incorporated

Adams, McEntee & Co. — Allen & Company — American Securities Corporation — Bank of America N.T. & S.A. — The Bank of Califor

Barr Brothers & Co. Inc. — Bear, Stearns & Co. — A. G. Becker & Co. Incorporated — J. C. Bradford & Co. — Alex. Brown & Sons — The Connecticut Bank & Trust

Crocker National Bank — Drexel Burnham & Co. Incorporated — Edwards & Hanly — Fahnestock & Co. — First of Michigan Corporation — The First Natio of Boston

The First National Bank of Memphis — First National Bank of Miami — First Pennco Securities Inc. — Geo. B. Gibbons & Company Incorporated — Gir Girar

Hayden Stone Inc. — Hornblower & Weeks-Hemphill, Noyes Incorporated — E. F. Hutton & Company Inc. — Kuhn, Loeb & Co. — Lazard Frè

Lehman Brothers Incorporated — Loeb, Rhoades & Co. — Marine Midland Municipals Co. — Matthews & Wright, Inc. — Mercantile Trust Comp

John Nuveen & Co. Incorporated — Paine, Webber, Jackson & Curtis Incorporated — R.W. Pressprich & Co. Incorporated — Republic National Bank of Dallas — Reynolds Secu

Roosevelt & Cross Incorporated — L. F. Rothschild & Co. — Shields Model Roland Incorporated — Thomson & McKinnon Auchincloss Kohlm

Tripp & Co., Inc. — United California Bank — G. H. Walker, Laird Incorporated — Weeden & Co. Incorporated — Wertheim & Co., Inc. — Dean Wit Incorpo

Abraham & Co. Inc. — Advest Co. — Altgelt & Company Incorporated — Anderson, Peters & Hunt, Inc. — Banco Credito Y Ahorro Ponceno — Bank of the Comm

Boenning & Scattergood, Inc. — Bruns, Nordeman, Rea & Co. — Butcher & Singer — Colin, Hochstin Co. — Cowen & Co. — Cutter Bennett Securi

A. Webster Dougherty & Co. Incorporated — Douglas & Co. Municipals, Inc. — Ehrlich-Bober & Co., Inc. — Faulkner, Dawkins & Securities Corp.

First National State Bank of New Jersey — First Union National Bank of North Carolina — First Wisconsin National Bank of Milwaukee — Chester Harris &

A. S. Hart Securities Corporation — Hutchinson, Shockey, Erley & Co. — Industrial National Bank of Rhode Island — Investment Corporation o

Loewi & Co. Incorporated — McDonald & Company — The National Shawmut Bank of Boston — North Carolina National Bank — The Ohio

Park, Ryan, Inc. — Wm. E. Pollock & Co., Inc. — Poole & Co. — Prescott, Ball & Turben — Provident National Bank of Philadelphia — Rand &

The Robinson-Humphrey Company, Inc. — Schroder Trust Co. — SoGen-Swiss International Corporation — Sterling, Grace Municipal Securities Co

Stern, Lauer & Co. — Spencer Trask & Co. Incorporated — Trust Company of Georgia — Van Kampen Wauterlek & Br

631

Wood Bros. Peebles Investments, Inc.

DATE OFFERED	5-21-74		5-21-74		5-21-74		5-21-74		5-21-74		5-20-74		5-21-74		5-21-74	
AMOUNT	2 MM		6,350,000		9,400,000		1,940,000		8,655,000		109 MM		5 MM		7,735,000	
ISSUE	Santa Rosa Rancho Wtr Dist Cal		Albuquerque N Mex →		Ept		West Allis Wis		Carbondale Ill W/S rev		S.C. Pub Serv Auth		Mesa Ariz Util Sys Rev		Prince George's Co Md	
MOODY S & P							A-1 A		AAA		A AA				Aa AA	
OFFER BY	Sec Pac NB 69172		Halsey 5.9728		MLPFS 6.298		FNB Milw. 53730		Nuveen 6.7466 NEGOT		Lehman NEGOT		Blyth 5.99748		Donaldson Lufkin 566068	
Month																
1971																
1972																
1973																
1974																
1975			6	535			6	500					670	540	5	505
1976	650	600		40										↓	8	
1977		↓		45			↓	↓						545		
1978		605		50			595	500						50		
1979		10		55			505	05	7	550				60		↓
1980		15		60			510	10		↓	6	540	↓	65		310
1981		20		570			515	15				50	570	70		15
1982		625	↓	↓	650	580	520	20		560		60	575	75		20
1983		↓				90	525	25		70		70	580	80		25
1984		630				600	530	30		75		75	590	90		30
1985		35			↓	05	540	40		80		80			765	35
1986		40			610	10	550	50		85		90			540	40
1987		45			620	15				90		95			550	50
1988		50				620				95		600			↓	55
1989	↓	55			↓	↓				600	↓	05			560	60
1990	660	65								10	610	10			570	70
1991	670	70							↓	20	620	15			575	75
1992	675	75							675	25		6			580	80
1993	680	80								30		620			↓	85
1994	↓	85							↓	40	↓	↓			590	590
1995	690	90							650	45					↓	95
1996	↓	95							↓	50					4	640
1997	7	700							660	55						
1998									↓	60						
1999	↓	↓							670	65					↓	↓
2000									↓	70						
2001									675	675						
2002																
2003																
2004									↓	NO						
2005																
2006																
2007																
2008																
2009																
2010																
2011																
2012																
2013																
2014											650	99^{00} 6535				
2015																

Wood Bros. Peebles Investments, Inc.

DATE OFFERED	5-21-74	5-21-74	5-21-74	5-22-74	5-22-74	5-22-74	5-22-74	5-22-74
AMOUNT	2 MM	2800,000	5 MM	2640,000	6 MM	40 MM	2 MM	1 MM
ISSUE	Prince George's Co Md Park & Rec Fac	Mt Clemens Mich	Chippewa Falls Wisc	White Bear Minn	Weld Co SD 6 Colo	Los Angeles Dept Air Cal	Ridgefield SD 122 Wash	Grapevine ISD TX
MOODY S & P	Aa AA	A A	A-1	Baa-1	Aa AA	a A	A	A
OFFER BY	FNCB	Harris Tr	1st Wisc	Bank NW	Bosworth Sullivan	Blyth	NBC Seattle	Underwood Neuhaus
	5.6609	6.3188	58299	5A397	NEGOT	69652	61838	527309
Month								
1971								
1972								
1973								
1974	510	510		PAR	500			
1975	8		750	510	540	500	7	550	720	500
1976							6	540	7	60	7	550		
1977				515						65		30		
1978						505				70		40		
1979		515		520		10		510		75		50	5	
1980		20		25		15				80		55		
1981		25		30		20		520		530		85	575	60		
1982	7	30		35		25		30				90		65		
1983	525	25		40		30		40		535		95		70		
1984	530	30		40		35		50		40		600		75		505
1985		35		45		40		60		45		10	590	80	510	10
1986	540	40		50	550	50		70		50		20	6	90		15
1987		45		60	560	60		80		55		30		600	520	20
1988	550	50	610	70	570	70		90		60		40			530	30
1989		55		80	575	75		600		65	680	50		610	540	40
1990	560	60		90	580	80				70		60	620	20		
1991		65		600	590	90			585	75		70		20		
1992	570	70		10	6	600			580	80		80	625	625		
1993	580	80	620	20					585	85	690	85				
1994	590	90	625	25								690				
1995	6	600	630	30							7	95				
1996	4	650	635	35								700				
1997			640	40												
1998			645	45												
1999			650	650								705				
2000																
2001												710				
2002			550	670												
2003																
2004																
2005																
2006																
2007																
2008																
2009																
2010																
2011																
2012																
2013																
2014																
2015																

DATE OFFERED	5-22-74	5-23-74	5-23-74	5-23-74	5-23-74	5-23-74	5-23-74	5-23-74
AMOUNT	1 MM	2,380,000	1 MM	22,550,000	4545,000	95 MM	9,200,000	1,800,000
ISSUE	Forest Hill TX	Fla Dev Bond Finance Rev	Spartanburg SD 7 SC	Monroe Co Mich Pall Rev	Worcester Mass	P.R. Sugar Corp GO	Clark Co San Dist 1 Rev	Holland Mich
MOODY S & P	Baa-1	a A	a A		aa	A-1	A	aa AA
OFFER BY	White Weld 6.211	Hough 695354	NCNB 5.7556	Morgan Stanley NEGOT	Bankers 5.32	MGT FNCB NEGOT 69424	Kuhn Moore NEGOT	1st Mich 5973
Month								
1971								
1972								
1973								
1974								
1975		750 550			535 510	8 575	630 570	7 510
1976	725 525		7 520			90		
1977						600		
1978						10		515
1979		560		PAR 620		20		
1980		70	675 525	30		30		
1981		75	550 30	40		40		520
1982		80	40	55		770 50	575	
1983	675 530	90	45	65		660 60	80	525
1984	535 35	600	50	80		670 70	90	30
1985	540 40	670	560 60	90		675 75	600	35
1986	550 50	610	570 70	700		680 80	6	40
1987	560 60		575 75	10		690 90	605 570	45
1988	570 70	620	580 80	15		90	10	50
1989	580 80	30				625 695	20	60
1990	590 90	40					25	70
1991	6 650	50					630 580	80
1992		60					590	90
1993	610 610	70					595	95
1994	620 20	75					6	650
1995	630 30	7 85						
1996	640 40	95					605	605
1997	650 650	700					610	610
1998								
1999							5	650
2000								
2001								
2002								
2003								
2004				PAR 718				
2005								
2006								
2007								
2008								
2009								
2010								
2011								
2012								
2013								
2014								
2015								

DATE OFFERED	5-23-74	5-24-74	5-28-74	5-28-74	5-28-74	5-28-74	5-28-74	5-29-74
AMOUNT	2,710,000	77,800,000	75 MM	2,200,000	1,300,000	2,600,000	2,450,000	4,450,000
ISSUE	Sweetwater Co Wyo	San Francisco Air Imp Corp	California	North Hills Wth Dist Ohio W/W Sys Rev	Springfield Pub Bldg Corp Del Rev	Plymouth Mass	Oak Lawn SD 122 Ill	Kansas City Mo
MOODY S & P	A-1 AA	Baa BBB	Aaa AAA	A	Aa	Aa	A-1	Aa AA
OFFER BY	NOTrust	Morgan Stanley	MOT	McDonald	NOTrust	Cont Ble	Ford City Chic	PNCB
	54632	NEGOT 8.03	54112	675	885345	5.27	58263	54560
Month								
1971								
1972								
1973								
1974								
1975	6 / 510	PAR / 600	630 / 500	675 / 550		530 / 510	6 / NO	625 / 500
1976	525 / 515		660 / 20					
1977				555	650 / 510			
1978			30					
1979			40 / 550	560	515			
1980	520		50 / 510		20			525
1981	25	60	505	565	25			505
1982	540 / 30	70	10	70	30		575	10
1983	35	80	15	75	35		540	15
1984	40	90	520 / 20	80	6 / 40		550	20
1985		700	525 / 25	85	580 / 45			25
1986		10	25	90	50		560	30
1987		20	530 / 30	630	55		575	540 / 35
1988		25	35	10	65		540	40
1989			540 / 40	20	75		6	45
1990			45	30	80			550 / 550
1991			550 / 45	40	6 / 90			
1992			550	50	45			
1993				55	600			555
1994				60	5 / 620			60
1995				65				
1996				70				
1997				675				
1998								
1999		PAR / 7 7/8						
2000								
2001								
2002								
2003								
2004								
2005								
2006								
2007								
2008								
2009								
2010								
2011								
2012								
2013		PAR / 800						
2014								
2015								

Allen & Co., Inc., National City Bank, Lancaster, Bank of the Commonwealth, Detroit, Wm. Blair & Co., Colin, Hochstin & Co., Ehrlich-Bober Co., Inc., First National Bank of Commerce, New Orleans, First Wisconsin National Bank, Milwaukee, Loewi & Co., Inc., Mercantile National Bank at Dallas, Moore & Schley, Cameron & Co., Reinholdt & Gardner, Union Planters National Bank, Memphis, Abraham & Co., First National Bank of Birmingham, A. S. Hart & Co., Inc., Janney, Montgomery Scott Inc., National Bank of Commerce, Memphis, National Commercial Bank & Trust Co., Albany, and Watling, Lerchen & Co., Inc., 100.0051, for 6½s, 6.40s, 6½s, 5½s, 5.40s, 5½s, 5.60s, 5.70s, 5.80s, 5.90s and 4½s, NIC 5.5585.

Harris Co. Water Control and Improvement Dist. No. 99, Tex., Nov. 20 — $975,000 — Waterworks and Sewer System Combination Tax and Revenue bonds, dated Dec. 1, 1974, due April 1, 1979 to 2000.

Purchased by a syndicate composed of Underwood, Neuhaus & Co., Inc., Moore, Juran & Co., Rauscher Pierce Securities Corp., Shearson, Hayden Stone Inc., and Stern Brothers & Co., as 6s (79-82), 6.10s (83), 6¼s (84), 6.40s (85), 6½s (86), 6.60s (87), 6¾s (88), 6.90s (89), 7s (90), 7.15s (91), 7.30s (92), 7.40s (93), and 7½s (94-2000), at 97.00, NIC 7.4978%.

L.O.: Fulbright & Jaworski, Houston.

Reoffered at 6.00% to 7.65%.

Texas Water Development Board (Austin), Nov. 21 — $10,000,000 — Water Development Series 1974 State Guaranteed bonds, dated Dec. 1, 1974, due Aug. 1, 1976 to 1985.

Purchased by a syndicate managed by First National Bank in Dallas, as 5¼s (76-77), 4½s (78-80), 4.60s (81), 4.70s (82), 4.80s (83), and 4.90s (84-85), at 100.0006, NIC 4.7535%.

L.O.: Vinson, Elkins, Searls, Connally & Smith, Houston.

All sold.

Other members of the syndicate are: Crocker National Bank, San Francisco, Mellon Bank, N. A., Pittsburgh, Southeast First National Bank of Miami, Girard Bank, Philadelphia, White, Weld & Co., Inc., and First National Bank in St. Louis.

Other bidders were:

Chemical Bank, New York, Kuhn, Loeb & Co., National Bank of Commerce, Dallas, and Rotan, Mosle Inc., 100.065, for 4.80s, 4.60s, 4.70s, and 5s, NIC 4.8153%.

Chase Manhattan Bank, N. A., New York, and First National Bank of Chicago (Co-managers), L. F. Rothschild & Co., Wertheim & Co., Inc., Shearson, Hayden Stone, Inc., Smith, Barney & Co., Inc., First Pennco Securities, Inc., Marine Midland Municipals Co., Shields Model Roland Inc., Texas Commerce Bank, Houston, Barr Brothers & Co., Inc., and UMIC, Inc., 100.004, for 5.60s, 4.80s, 4.60s, 4¾s, 4.90s, and 5s, NIC 4.8276%.

First City National Bank, Houston, Underwood, Neuhaus & Co., Inc., National Bank of Tulsa, Capital National Bank, Houston, Russ Securities Corp., Rowles, Winston Division, Cowen & Co., and Cullen Center Bank & Trust, Houston, 100.002, for 5s, 4.65s, 4⅞s, and 4.85s, NIC 4.85101%.

Harris Trust & Savings Bank, Chicago, Bankers Trust Co., New York, Northern Trust Co., Chicago, and Continental Illinois National Bank & Trust Co., Chicago, 100.00[illegible], NIC 4.8837%.

Morgan Guaranty Trust Co., New York, United California Bank, Los Angeles, W. H. Morton & Co., Inc. (Division of American Express Co.), and Bear, Stearn & Co. (Co-managers), Heitner Corp., and Langdon P. Cook & Co., Inc., 100.002, for 5.20s, 4.70s, 4.80s, 4.90s, 5s, and 5.10s, NIC 4.8914%.

Durable Goods Orders Decline

WASHINGTON — New orders for durable goods fell 1.9%, or $865 million, to a seasonally-adjusted $45.727 billion in October, the Commerce Department reported.

THE BOND BUYER'S INDEX

Municipal Bond Average Yields

(COMPILED WEEKLY)

Dec. 2 6.71

1974	20 Bonds (%)	11 Bonds (%)	U.S. Gov't (See Note) (%)	1974	20 Bonds (%)	11 Bonds (%)	U.S. Gov't (See Note) (%)
Nov. 21	6.53	6.19	4.13	June 27	6.33	6.13	4.30
Nov. 14	6.55	6.20	4.12	June 20	6.13	5.95	4.28
Nov. 7	6.66	6.33	4.25	June 13	6.04	5.85	4.35
Oct. 31	6.65	6.31	4.32	June 6	6.01	5.83	4.33
Oct. 24	6.51	6.17	4.50	May 30	6.08	5.89	4.34
Oct. 17	6.48	6.13	4.54	May 23	6.05	5.91	4.35
Oct. 10	6.52	6.17	4.53	May 16	6.04	5.90	4.33
Oct. 3	6.68	6.34	4.63	May 9	6.00	5.87	4.39
Sept. 26	6.62	6.27	4.62	May 2	5.91	5.78	4.31
Sept. 19	6.76	6.43	4.65	Apr. 25	5.82	5.70	4.30
Sept. 12	6.79	6.45	4.69	Apr. 18	5.61	5.48	4.18
Sept. 5	6.88	6.56	4.65	Apr. 11	5.75	5.63	4.23
Aug. 29	6.91	6.59	4.68	Apr. 4	5.73	5.61	4.22
Aug. 22	6.73	6.44	4.68	Mar. 28	5.57	5.45	4.17
Aug. 15	6.61	6.33	4.63	Mar. 21	5.46	5.35	4.18
Aug. 8	6.58	6.32	4.56	Mar. 14	5.32	5.21	4.07
Aug. 1	6.70	6.44	4.54	Mar. 7	5.27	5.16	4.01
July 25	6.34	6.09	4.37	Feb. 28	5.26	5.15	4.01
July 18	6.78	6.52	4.48	Feb. 21	5.21	5.09	3.91
July 11	6.95	6.71	4.44	Feb. 14	5.18	5.07	3.87
July 3	6.64	6.42	4.33				

(Note: Yield shown is for U.S. Government 7s of 5/15/98. Prior to 3/28/74 the yield shown was for U.S. Government 6¾s of 2/15/93, after 48% corporate income tax.)

(INDICES SHOWN BELOW ARE AS OF THE FIRST THURSDAY OF EACH MONTH)

Twenty Bonds

	1974 %	1973 %	1972 %	1971 %	1970 %
Jan.	5.18	5.08	5.03	5.74	6.61
Feb.	5.16	5.16	5.35	5.27	6.54
Mar.	5.27	5.22	5.29	5.37	6.00
Apr.	5.73	5.22	5.49	5.15	6.11
May	5.91	5.10	5.35	5.84	6.89
June	6.01	5.13	5.15	5.70	6.92
July	6.64	5.34	5.43	6.19	6.79
Aug.	6.70	5.59	5.32	6.07	6.25
Sept.	6.88	5.18	5.39	5.39	6.16
Oct.	6.68	5.04	5.22	5.17	6.39
Nov.	6.66	5.17	5.04	4.99	6.28
Dec.	. . .	5.15	4.96	5.44	5.41

	High Yield %	Date	Low Yield %	Date
1974	6.95	(7/11)	5.16	(2/ 7)
1973	5.59	(8/ 2)	4.99	(10/11)
1972	5.54	(4/13)	4.96	(11/22)
1971	6.23	(6/24)	4.97	(10/21)
1970	7.12	(5/28)	5.33	(12/10)

Highest Yield—7.12%, May 28, 1970
Lowest Yield—1.29%, Feb. 14, 1946

Eleven Bonds

	1974 %	1973 %	1972 %	1971 %	1970 %
Jan.	5.05	4.98	4.82	5.47	6.42
Feb.	5.04	5.06	5.14	5.01	6.30
Mar.	5.16	5.11	5.08	5.15	5.88
Apr.	5.61	5.11	5.29	4.93	5.99
May	5.78	4.98	5.17	5.62	6.76
June	5.83	5.02	4.97	5.47	6.80
July	6.42	5.22	5.24	5.99	6.66
Aug.	6.44	5.45	5.14	5.86	6.08
Sept.	6.56	5.04	5.21	5.14	5.99
Oct.	6.34	4.91	5.05	4.92	6.23
Nov.	6.33	5.05	4.91	4.77	6.08
Dec.	. . .	5.03	4.85	5.21	5.14

	High Yield %	Date	Low Yield %	Date
1974	6.71	(7/11)	5.04	(2/ 7)
1973	5.45	(8/ 2)	4.87	(9/27)
1972	5.35	(4/13)	4.78	(1/13)
1971	6.04	(6/24)	4.75	(10/21)
1970	7.00	(5/28)	5.02	(12/10)

Highest Yield 7.00%, May 28, 1970
Lowest Yield—1.04%, Feb. 21, 1946

The average rating of the 20 bonds used in this index falls midway between the four top groups as classified by Moody's Investors Service. The composite rating of the 11 bonds is equivalent to the second best rating of the rating agency.

except the City of Boston, told an audience of municipal finance officials from all over Massachusetts and parts of other New England states that for the first six months of 1974 the aggregate of loans in anticipation of tax revenues approved by the Bureau of Accounts for towns, districts and counties totaled $101,177,000, compared to $375,632,000 for the same period in 1973.

Big Loan Reduction

At the city level of government, approved tax revenue loans for the six-month period ending June 30, 1974 totaled $253,400,000, compared to $413,300,000 for a like period in 1973.

Mr. McGill said [illegible] rary loans th[illegible] nicipalities [illegible] period endnig June [illegible] 577,000, which ave[illegible] only three months. [illegible] have averaged six m[illegible] the transitional cha[illegible] new fiscal period.

Some Pro[illegible]

Mr. McGill said th[illegible] law presented some [illegible] which was the fact i[illegible] work of the tax co[illegible] additional staff costs.

Mr. Richard D. Ca[illegible] ager of Shrewsbury, [illegible] of the disadvantages [illegible] was that budgets ha[illegible] only four months in [illegible] year, making it d[illegible] budget estimates f[illegible] Under the old caler[illegible] municipalities had 1[illegible] ence on which to [illegible] mates for the ensuin[illegible]

More than 500 per[illegible] conference. Partici[illegible] bank were Mark C[illegible] man; Roderick M. [illegible] dent; Harry H. B[illegible] president, and John[illegible] assistant vice presid[illegible]

Thomas H. Urmst[illegible] services officer for th[illegible] a discussion on "Th[illegible] Investment Income [illegible] ment Funds." A pan[illegible] lems in Public Empl[illegible] included Alexander M[illegible] man of the Massaci[illegible] lations Commission[illegible] general counsel for t[illegible] Teachers Associatio[illegible] Noroman Holz.

Gallagher Is Elec[illegible] Of International [illegible]

HOUSTON, Nov. [illegible] director John P. Gal[illegible] Jesrey Highway A[illegible] elected to serve as [illegible] International Bridg[illegible] pike Association, In[illegible] more than 300 agen[illegible] facilities in 14 coun[illegible]

Mr. Gallagher h[illegible] director of the Hi[illegible] which operates th[illegible] Parkway, since July [illegible] stepped down as a [illegible] chairman to accept [illegible] position.

Bond Calls and [illegible]

Flagler Sch. Dist[illegible]

Flagler Sch. Dis[illegible] calls for redemptio[illegible] 1974, Building Bon[illegible] 1964, in the principa[illegible] 000.

Complete details [illegible] of bonds called ap[illegible] notice in another co[illegible]

WARING, COX, JAMES, SKLAR & ALLEN
LAWYERS
TWENTIETH FLOOR STERICK BUILDING
MEMPHIS, TENNESSEE
38103
TELEPHONE (901) 525-2431

ALLEN COX, JR.
ROANE WARING, JR.
ERICH WILLIAM JAMES
ROBERT LEE COX
JERALD H. SKLAR
LOUIS F. ALLEN
FRANK L. WATSON, JR.
ROBERT T. EDWARDS
ROBERT L. RUBIN
BYRD DOUGLAS EARTHMAN

ROANE WARING (1881-1958)
SAM P. WALKER (1880-1957)

December 4, 1974

Mr. Pat Smith, State Auditor
State of South Carolina
Columbia, South Carolina 29211

RE: $2,875,000 Industrial Revenue Bonds of Darlington County, South Carolina (Nytronics Components Group, Inc.) - Supplemental Petition to the Budget and Control Board of the State of South Carolina

Dear Mr. Smith:

I have been advised by Mr. Bernard M. Goldsmith and Mr. Jack R. Bellows, both of whom attended the Budget and Control Board meeting in Columbia on December 3, 1974, that the captioned Bond issue was approved by the Budget and Control Board in its new, present and current form, subject to the Budget and Control Board receiving written approval of the changes from the Board of Commissioners of Darlington County and Mr. Kenneth Baker, its attorney.

Inasmuch as the approval requested was already before the Board in the form of the Supplemental Petition, I assume that this second request is the result of an oversight. Therefore, we are, as Bond counsel, proceeding with the distribution of this issue, and would appreciate receipt of the Budget and Control Board's minutes at your earliest convenience.

Very truly yours,

Jerald H. Sklar

Jerald H. Sklar

JHS:lp

cc: Mr. Bernard M. Goldsmith
Nytronics, Inc.
105 Madison Avenue
New York, New York 10016

cc: Mr. Kenneth Baker
164 North Main Street
Darlington, South Carolina 29532

Mr. Jack R. Bellows
Wood Brothers-Peebles Investments, Inc.
Suite 612, 5575 Poplar Avenue
Memphis, Tennessee 38117

Mr. Theodore B. Guerard
Sinkler, Gibbs, Simons & Guerard
2 Prioleau Street
Charleston, South Carolina 29402

LAW OFFICES
BAKER & ETHERIDGE
PROFESSIONAL ASSOCIATION
P. O. BOX 77
164 NORTH MAIN STREET
DARLINGTON, SOUTH CAROLINA 29532

D. KENNETH BAKER
JOHN R. ETHERIDGE, JR.
ASSOCIATE
JEREMIAH J. MESERVE

TELEPHONE
AREA 803
393-6191

December 7, 1974

Honorable Pat Smith
State Auditor
200 Hampton Office Building
Box 11333
Columbia, South Carolina 29211

Re: $2,875,000 Industrial Revenue Bonds of Darlington County, South Carolina (Nytronics Components Group, Inc.) - Supplemental Petition to the Budget and Control Board of the State of South Carolina

Dear Mr. Smith:

I am enclosing a copy of the Supplemental Petition filed in this matter by the County of Darlington. This Petition was signed by Honorable Harrell Gardner, Chairman of the Darlington County Commission and hand delivered to your office on November 25, 1974.

Since the time of submission of that Petition, there has been no change in the position of the Darlington County Commission, and as the County Attorney, I submit this Supplemental Petition in compliance with the directive of the Budget and Control Board issued at its meeting in Columbia on December 3, 1974.

Yours very truly,

D. Kenneth Baker (MH)

D. Kenneth Baker

DKB/kp

Enclosure

cc: Mr. Bernard M. Goldsmith
Jerald H. Sklar, Esquire
Mr. Jack R. Bellows
Theodore B. Guerard, Esquire

Signed by Harell Carlson and Hand Delivered to Pat Smith by Buddy Vaughn 11-25-74 DKB

STATE OF SOUTH CAROLINA

COUNTY OF DARLINGTON

TO THE STATE BUDGET AND CONTROL BOARD OF SOUTH CAROLINA	SUPPLEMENTAL PETITION

This Supplemental Petition of the Darlington County Commission (the County Board) respectfully shows:

1. The County Board is the governing body of Darlington County, South Carolina, as established by law, and such is the County Board referred to in Act No. 103 of the 1967 Acts of the South Carolina General Assembly, as amended (the Act).

2. Pursuant to the requirements of the Act, the County Board has heretofore petitioned the State Budget and Control Board (the State Board) for its approval of the Project to be financed out of the proceeds of a proposed issue of $2,875,000 Darlington County, South Carolina, First Mortgage Industrial Revenue Bonds, Series 1974 (Nytronics Components Group, Inc. - Lessee), pursuant to the Act, and by Resolution adopted on June 11, 1974, the State Board approved the Project and the proposed financing thereof, as aforesaid, including changes in any details of said financing as finally consummated which do not materially affect the said undertaking. The State Board's approval was given subject to compliance with the following conditions:

(a) the obligations of the Lessee under the Lease shall be unconditionally guaranteed by Nytronics, Inc., a Delaware corporation, under a Lease Guaranty Agreement between the said Nytronics, Inc., and the County, and

(b) the Lessee shall obtain for the protection of the bondholders, lease insurance coverage in the amount of $1,800,000.

3. The County Board is advised by Nytronics Components Group, Inc. that the final details of the financing have now been agreed to, including an unconditional guarantee by Nytronics, Inc., and lease insurance coverage in the amount of $1,800,000. In its original Petition, the County Board stated that the bonds would bear interest at the rate of approximately Eight per centum (8%) per annum, and would be sold at an eight per cent (8%) discount. Under the terms now agreed upon, the bonds will bear interest at the rate of Eight and one-half per centum (8 1/2%) per annum, and will be sold at a discount of sixteen and three-tenths per cent (16.3%), or $468,625. The bonds will mature in the years 1975 through 1999, as follows:

YEAR	AMOUNT	YEAR	AMOUNT
1975	$ 35,000	1988	$110,000
1976	40,000	1989	115,000
1977	45,000	1990	130,000
1978	50,000	1991	135,000
1979	50,000	1992	150,000
1980	55,000	1993	165,000
1981	60,000	1994	175,000
1982	70,000	1995	190,000
1983	70,000	1996	210,000
1984	80,000	1997	220,000
1985	85,000	1998	220,000
1986	90,000	1999	225,000
1987	100,000		

4. The County Board is advised that Commercial Loan Insurance Corporation (CLIC) has issued its commitment for lease guaranty insurance in the aggregate amount of the combined principal of and interest on the bonds which will mature in the years 1975 through 1994. The options obtained by CLIC are explained in the Offering Circular as follows:

"CLIC has an option, exercisable by CLIC in the event of a default by Company to require a conveyance to CLIC of marketable title to the Project, free and clear of all liens and encumbrances, except those approved by CLIC prior to issuance of the Bonds. If CLIC exercises its option, it will pay to the Trustee for the benefit of the holders of Bonds maturing in the years 1975 through 1994, inclusive, only (Bond numbers 1 to 362) a sum not to exceed the principal amount of the Bonds maturing in the years 1975 through 1994, inclusive, plus accrued interest on those Bonds, only to the date of purchase.

The $1,065,000 principal amount of the Bonds maturing in the years 1995 through 1999, inclusive are not insured as to either principal or interest. In the event that CLIC exercises its option the Bonds maturing in the years 1995 through 1999, inclusive, shall no longer be secured by a first mortgage on the Factory Building, and shall be secured solely by the Equipment."

The County Board is submitting this Supplemental Petition in order to advise the State Board of the interest rate and discount at which the bonds will be sold and of the fact that the lease guaranty insurance does not cover the $1,065,000 of bonds maturing in the years 1995 through 1999, which, in the event that CLIC exercises its option to purchase the land and the buildings included in the Project, shall be secured solely by a lien on equipment.

WHEREFORE, the County Board prays that the State Budget and Control Board after consideration of the matters set forth hereinabove in this Supplemental Petition, reaffirm the approval

of the County Board's undertaking heretofore given by the Resolution adopted by the State Budget and Control Board on June 11, 1974.

Respectfully submitted,

DARLINGTON COUNTY, SOUTH CAROLINA

By_____
Chairman, Darlington County Commission

Attest:

_____
Clerk, Darlington County Commission

STATE OF SOUTH CAROLINA

COUNTY OF DARLINGTON

I, the undersigned, Clerk of the Darlington County Commission, Darlington County, South Carolina, DO HEREBY CERTIFY:

That the foregoing is a true, correct and verbatim copy of the Supplemental Petition approved by the Darlington County Commission at a duly called and regularly held meeting at which all members attended and remained throughout on November ___, 1974.

IN WITNESS WHEREOF, I have hereunto set my Hand and the Seal of the said Darlington County Commission, Darlington County, South Carolina, this ___ day of November, A. D. 1974.

(SEAL)

_____
Clerk, Darlington County Commission

STATE OF SOUTH CAROLINA

COUNTY OF DARLINGTON

TO THE STATE BUDGET AND CONTROL BOARD OF SOUTH CAROLINA	SUPPLEMENTAL PETITION

This Supplemental Petition of the Darlington County Commission (the County Board) respectfully shows:

1. The County Board is the governing body of Darlington County, South Carolina, as established by law, and such is the County Board referred to in Act No. 103 of the 1967 Acts of the South Carolina General Assembly, as amended (the Act).

2. Pursuant to the requirements of the Act, the County Board has heretofore petitioned the State Budget and Control Board (the State Board) for its approval of the Project to be financed out of the proceeds of a proposed issue of $2,875,000 Darlington County, South Carolina, First Mortgage Industrial Revenue Bonds, Series 1974 (Nytronics Components Group, Inc. - Lessee), pursuant to the Act, and by Resolution adopted on June 11, 1974, the State Board approved the Project and the proposed financing thereof, as aforesaid, including changes in any details of said financing as finally consummated which do not materially affect the said undertaking. The State Board's approval was given subject to compliance with the following conditions:

(a) the obligations of the Lessee under the Lease shall be unconditionally guaranteed by Nytronics, Inc., a Delaware corporation, under a Lease Guaranty Agreement between the said Nytronics, Inc., and the County, and

(b) the Lessee shall obtain for the protection of the bondholders, lease insurance coverage in the amount of $1,800,000.

3. The County Board is advised by Nytronics Components Group, Inc. that the final details of the financing have now been agreed to, including an unconditional guarantee by Nytronics, Inc., and lease insurance coverage in the amount of $1,800,000. In its original Petition, the County Board stated that the bonds would bear interest at the rate of approximately Eight per centum (8%) per annum, and would be sold at an eight per cent (8%) discount. Under the terms now agreed upon, the bonds will bear interest at the rate of Eight and one-half per centum (8 1/2%) per annum, and will be sold at a discount of sixteen and three-tenths per cent (16.3%), or $468,625. The bonds will mature in the years 1975 through 1999, as follows:

YEAR	AMOUNT	YEAR	AMOUNT
1975	$ 35,000	1988	$110,000
1976	40,000	1989	115,000
1977	45,000	1990	130,000
1978	50,000	1991	135,000
1979	50,000	1992	150,000
1980	55,000	1993	165,000
1981	60,000	1994	175,000
1982	70,000	1995	190,000
1983	70,000	1996	210,000
1984	80,000	1997	220,000
1985	85,000	1998	220,000
1986	90,000	1999	225,000
1987	100,000		

4. The County Board is advised that Commercial Loan Insurance Corporation (CLIC) has issued its commitment for lease guaranty insurance in the aggregate amount of the combined principal of and interest on the bonds which will mature in the years 1975 through 1994. The options obtained by CLIC are explained in the Offering Circular as follows:

"CLIC has an option, exercisable by CLIC in the event of a default by Company to require a conveyance to CLIC of marketable title to the Project, free and clear of all liens and encumbrances, except those approved by CLIC prior to issuance of the Bonds. If CLIC exercises its option, it will pay to the Trustee for the benefit of the holders of Bonds maturing in the years 1975 through 1994, inclusive, only (Bond numbers 1 to 362) a sum not to exceed the principal amount of the Bonds maturing in the years 1975 through 1994, inclusive, plus accrued interest on those Bonds, only to the date of purchase.

The $1,065,000 principal amount of the Bonds maturing in the years 1995 through 1999, inclusive are not insured as to either principal or interest. In the event that CLIC exercises its option the Bonds maturing in the years 1995 through 1999, inclusive, shall no longer be secured by a first mortgage on the Factory Building, and shall be secured solely by the Equipment."

The County Board is submitting this Supplemental Petition in order to advise the State Board of the interest rate and discount at which the bonds will be sold and of the fact that the lease guaranty insurance does not cover the $1,065,000 of bonds maturing in the years 1995 through 1999, which, in the event that CLIC exercises its option to purchase the land and the buildings included in the Project, shall be secured solely by a lien on equipment.

WHEREFORE, the County Board prays that the State Budget and Control Board after consideration of the matters set forth hereinabove in this Supplemental Petition, reaffirm the approval

of the County Board's undertaking heretofore given by the Resolution adopted by the State Budget and Control Board on June 11, 1974.

Respectfully submitted,

DARLINGTON COUNTY, SOUTH CAROLINA

By Harvell L. Gardner
Chairman, Darlington County Commission

Attest:

Billie S Norwood
Clerk, Darlington County Commission

EXHIBIT I
MAY 22, 1974

LAW OFFICES
BAKER & ETHERIDGE
PROFESSIONAL ASSOCIATION
POST OFFICE BOX 77
164 NORTH MAIN STREET
TELEPHONE (803) 393-6191

D. KENNETH BAKER
JOHN R. ETHERIDGE

ASSOCIATE
JEREMIAH J. MESERVE

DARLINGTON, SOUTH CAROLINA 29532

April 2, 1974

Pat C. Smith, Esquire
State Auditor
P.O. Box 11333
Columbia, South Carolina 29211

RE: $2,875,000 Darlington County, South Carolina, First Mortgage Industrial Revenue Bonds, Series 1974 (Nytronics Components Group, Inc. - Lessee)

Dear Mr. Smith:

At its meeting held April 1, 1974, the Darlington County Commission approved its Resolution Number 69, authorizing a Petition to be filed with the State Budget and Control Board concerning an Industrial Revenue Bond Issue for Nytronics Components Group, Inc. The original of the Petition so authorized is enclosed, along with certified copies of the Resolution of the commission.

If there is anything further which we need to furnish you at this time in this regard, please let me know.

With kind personal regards, I am,

Sincerely yours,

D. Kenneth Baker

DKB/kp
Enclosures
CC: Jerald H. Sklar, Esq.
Attorney at Law
2410 Sterick Building
Memphis, Tennessee 38103

Mr. Leo Moreau
Nytronics, Inc.
Darlington, S. C. 29532

Theodore B. Guerard, Esquire
Attorney at Law
P.O. Box 340
Charleston, S. C. 29402

THIS CASE MAY HAVE SOME OR ALL OF THE FOLLOWING DEFECTS WHICH MAY BE QUESTIONABLE WHEN READING. IN SPECIAL PROBLEM AREAS, THIS ROLL NOTE MAY BE REFILMED BEFORE THE DOCUMENT OR DOCUMENTS IN QUESTION.

1. PHOTOCOPY NOT CENTERED PROPERLY CUTTING OFF SOME OF THE INFORMATION.

2. DOCUMENTS ARE OF POOR LEGIBILITY AND MAY NOT PHOTOGRAPH WELL.

3. DOCUMENTS DAMAGED OR TORN BEFORE ARRIVING FOR FILMING.

4. DOCUMENTS CONTAIN A DOUBLE-COPY IMAGE, THE UNDERLYING IMAGE IS IRRELEVENT TO THE READABLE INFORMATION.

5. OVERSIZED DOCUMENTS THAT COMPRISE TWO OR MORE FRAMES.

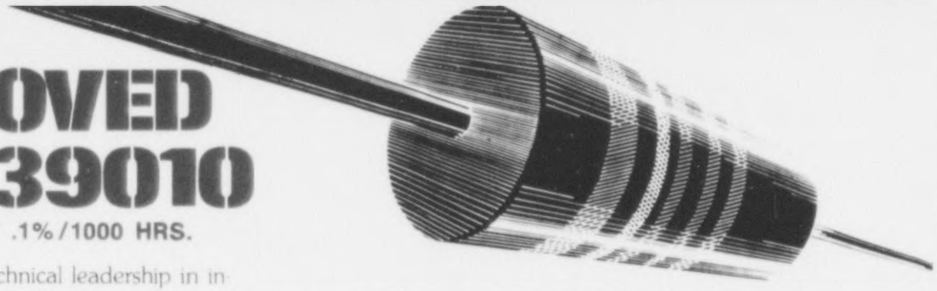
6. DOCUMENTS WITH GLUED INSERTS WHICH WERE OR COULD NOT BE REMOVED, INFORMATION MAY OR MAY NOT BE UNDER THE INSERT.

Nytronics Components Group Inc.

A SUBSIDIARY OF NYTRONICS INC.
ORANGE STREET / DARLINGTON, SOUTH CAROLINA 29532
TEL: (803) 393-5421 / TWX: 810-665-2182

Nytronics Components Group Inc.
ORANGE STREET, DARLINGTON, S. C. 29532
(803) 393-5421 • TWX 810-665-2182

Inductors



APPROVED MIL-C-39010

FAILURE RATE "P" .1%/1000 HRS.

Nytronics' history of technical leadership in inductors has a new chapter. The first company to extend the standard line concept to variable inductors has remained ahead in every subsequent step of refinement and miniaturization.

Today, there's a new place for a familiar group of inductors under highest reliability military specifications—MIL-C-39010/B

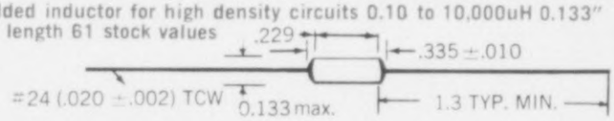
With sizes ranging from the world's smallest shielded inductor to the most complex variable inductor...shielded, unshielded, chip and variable, in hundreds of off-the-shelf values...it makes good sense to check first with Nytronics or your local distributor.

Now tested and approved to highest reliability military specifications.

Nytronics Standard Inductor Part Number	Standard Military Series	New High Reliability Qualification
SWD	MS90537	MIL-C-39010-1A, 2A, + 3A
SWD	MS75087	MIL-C-39010-1A
SWD	MS75088	MIL-C-39010-2A
SWD	MS75089	MIL-C-39010-3A
RFC-S	MS75008	MIL-C-39010-4A
RFC-S	MS75101	MIL-C-39010-5A
RFC-SS	MS18130	MIL-C-39010-6A
RFC-SS	MS14046	MIL-C-39010-7A

Wee Wee-Ductor

The smallest shielded inductor for high density circuits 0.10 to 10,000uH 0.133" diameter x 0.335" length 61 stock values



The **WEE WEE-DUCTOR** offers the Design Engineer an encapsulated subminiature shielded inductor to solve special problems in density circuit application. This shielded inductor has great inductance-to-size ratio and is designed to meet the stringent requirements of MIL-C-15305D, Grade 1, Class B.

ELECTRICAL CHARACTERISTICS

Inductance Tolerance: ±10% (Q-Meter).
Dielectric Strength: 700 volts RMS at sea level.
Self-Resonant Frequency: Minimum f_0 to be not less than 80% of published data, and measured with full length leads on Q-Meter.
Q and Rp Values: Measured on Q-Meter.
Rating: 1 maximum based on ½ watt dissipation.

DENSITY CHARACTERISTICS

Volume: 0.0041 cubic inches **Weight:** 0.50 grams maximum
Shielding: Less than 3% coupling with two units mounted side by side at 1000 cycles.

PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS

Operating Temperature: —55°C to +125°C.
Terminal Strength: Meets five pound pull test, five 360° rotations in alternate directions per MIL-C-15305D.
Moisture, Vibration and Shock Resistance: Meets requirements of MIL-C-15305D, Grade 1, Class 2. High Frequency: 10 cps to 2000 cps @ 15G ±10% maximum for 12 logarithmic swings each of 20 minute duration repeated for each of three mutually perpendicular planes. Shock: 50G, 11 MS.
Marking: Color coded per MIL-C-15305D.

WEE WEE-DUCTOR STANDARD VALUES

NYTRONICS PART NO.	L	Q min.		approx. Fo	approx. Cd	Max. DCR at 125°C	Max. I	Incr.* I	MATERIAL
	uH		MC	MC	uuF	Ω	mA	mA	
WEE-WEE- 0.10	0.10	42	25	500	0.67	112	1720	1720	PHENOLIC
WEE-WEE- 0.12	0.12	42	25	500	0.67	126	1630	1630	
WEE-WEE- 0.15	0.15	42	25	500	0.67	138	1550	1550	
WEE-WEE- 0.18	0.18	42	25	458	0.67	165	1420	1420	
WEE-WEE- 0.22	0.22	42	25	414	0.67	198	1330	1330	
WEE-WEE- 0.27	0.27	42	25	373	0.67	220	1230	1230	
WEE-WEE- 0.33	0.33	42	25	360	0.66	258	1140	1140	
WEE-WEE- 0.39	0.39	42	25	339	0.57	292	1060	1060	
WEE-WEE- 0.47	0.47	41	25	309	0.57	360	960	960	
WEE-WEE- 0.56	0.56	39	25	295	0.52	397	915	915	
WEE-WEE- 0.68	0.68	36	25	270	0.52	472	840	840	
WEE-WEE- 0.82	0.82	35	25	250	0.52	638	720	720	
WEE-WEE- 1.0	1.0	42	25	170	0.87	208	1260	1260	IRON
WEE-WEE- 1.2	1.2	38	7.9	150	0.94	225	1210	1210	
WEE-WEE- 1.5	1.5	38	7.9	139	0.87	265	1120	1120	
WEE-WEE- 1.8	1.8	38	7.9	129	0.85	285	1080	1080	
WEE-WEE- 2.2	2.2	36	7.9	118	0.83	330	1000	1000	
WEE-WEE- 2.7	2.7	38	7.9	106	0.83	381	935	935	
WEE-WEE- 3.3	3.3	38	7.9	98	0.81	432	875	875	
WEE-WEE- 3.9	3.9	40	7.9	91	0.79	576	755	755	
WEE-WEE- 4.7	4.7	42	7.9	83	0.79	787	650	650	
WEE-WEE- 5.6	5.6	42	7.9	77	0.79	1.04	565	565	
WEE-WEE- 6.8	6.8	45	7.9	67	0.83	1.40	485	485	
WEE-WEE- 8.2	8.2	47	7.9	62	0.81	1.68	440	440	
WEE-WEE- 10	10	51	7.9	55	0.83	2.58	355	355	
WEE-WEE- 12	12	51	2.5	49	0.88	3.65	300	300	
WEE-WEE- 15	15	45	2.5	55	0.56	862	620	200	
WEE-WEE- 18	18	43	2.5	50	0.57	1.02	570	175	
WEE-WEE- 22	22	42	2.5	45	0.57	1.12	545	160	
WEE-WEE- 27	27	37	2.5	41	0.58	1.28	510	155	

*Incremental Current. The D.C. current required to cause a maximum reduction of 5 percent from nominal inductance value.

NYTRONICS PART NO.	L	Q min.		approx. Fo	approx. Cd	Max. DCR at 125°C	Max. I	Incr.* I	MATERIAL
	uH		MC	MC	uuF	Ω	mA	mA	
WEE-WEE- 33	33	46	2.5	37	0.57	1.70	440	150	FERRITE
WEE-WEE- 39	39	38	2.5	33	0.59	1.99	405	145	
WEE-WEE- 47	47	42	2.5	29	0.64	2.41	370	140	
WEE-WEE- 56	56	41	2.5	27	0.54	2.85	340	130	
WEE-WEE- 68	68	46	2.5	23	0.71	3.21	320	120	
WEE-WEE- 82	82	46	2.5	21	0.71	3.57	305	115	
WEE-WEE- 100	100	43	2.5	19	0.71	4.10	280	100	
WEE-WEE- 120	120	50	0.79	16	0.79	5.97	235	80	
WEE-WEE- 150	150	49	0.79	15	0.75	7.05	215	68	
WEE-WEE- 180	180	56	0.79	14	0.72	8.12	200	64	
WEE-WEE- 220	220	53	0.79	12	0.79	14.8	150	60	
WEE-WEE- 270	270	57	0.79	11.5	0.72	16.8	140	58	
WEE-WEE- 330	330	57	0.79	10.5	0.70	18.6	130	56	
WEE-WEE- 390	390	57	0.79	10.0	0.65	21.1	120	54	
WEE-WEE- 470	470	50	0.79	8.5	0.75	32.2	100	52	
WEE-WEE- 560	560	50	0.79	7.5	0.80	36.4	95	50	
WEE-WEE- 680	680	56	0.79	7.0	0.77	41.1	90	48	
WEE-WEE- 820	820	49	0.79	6.5	0.74	45.0	85	47	
WEE-WEE- 1000	1000	49	0.79	6.0	0.74	52.0	80	45	
WEE-WEE- 1200	1200	55	0.25	3.4	1.9	31	100	40	
WEE-WEE- 1500	1500	55	0.25	3.3	1.6	41	90	35	
WEE-WEE- 1800	1800	55	0.25	3.1	1.5	45	86	32	
WEE-WEE- 2200	2200	55	0.25	3.0	1.3	55	78	30	
WEE-WEE- 2700	2700	55	0.25	2.8	1.2	60	74	28	
WEE-WEE- 3300	3300	55	0.25	2.7	1.1	80	65	26	
WEE-WEE- 3900	3900	55	0.25	2.25	1.1	105	56	23	
WEE-WEE- 4700	4700	55	0.25	2.2	1.1	118	53	20	
WEE-WEE- 5600	5600	55	0.25	2.1	1.0	140	48	18	
WEE-WEE- 6800	6800	50	0.25	1.85	1.0	177	43	15	
WEE-WEE- 8200	8200	50	0.25	1.80	1.0	202	40	12	
WEE-WEE-10,000	10,000	50	0.25	1.60	1.0	231	37	10	

651

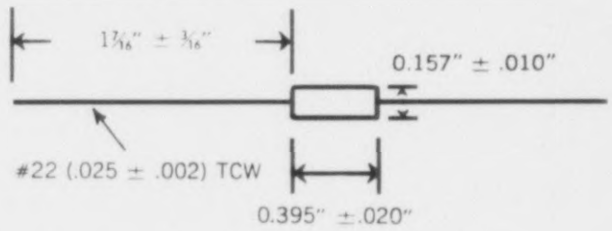
Nytronics Components Group Inc.
ORANGE STREET, DARLINGTON, S. C. 29532
(803) 393-5421 • TWX 810-665-2182

Inductors

NEW MS-INDUCTOR SERIES 75087, 75088, 75089 MOLDED SHIELDED INDUCTOR

Ultra-Reliable Molded Shielded Miniature Inductor.
Inductance Range: 0.1uH to 100,000uH.
Unique "T" design eliminates Fine Wire considerations.

The **MS-INDUCTOR SERIES** are R.F. Inductors specifically designed to meet the demanding requirements of MIL-C-15305D, Grade 1, Class B. The unique "T" design eliminates fine wire consideration that has previously concerned design engineers on critical circuitry. The MS-INDUCTOR Series epoxy molded envelope and shielding offers the design engineer reliability, electrical performance, and minimum coupling in high density packaging.



ELECTRICAL CHARACTERISTICS

Inductance Tolerance: ±10% over the entire inductance range.
Dielectric Strength: 700 volts RMS at sea level.
Self-Resonant Frequency: Measured per MIL-C-15305D.
Q and Rp Values: Measured on a Q-Meter. Minimum Rp values at listed frequencies are all conservative.
Maximum Current: Based on temperature rise not to exceed 35°C at 90°C ambient.

DENSITY CHARACTERISTICS

Volume: 0.0076 cubic inches **Weight:** 0.75 grams maximum
Shielding: At 1000 cycles two units assembled side by side exhibit less than 3% coupling.

PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS

Operating Temperature: —55°C to +125°C.

Terminal Strength: Meets five pound pull test; five 360° rotations in alternate directions per MIL-C-15305D.

Moisture, Vibration, and Shock Resistance: Meets requirements of MIL-C-15305D, Grade 1, Class B. High frequency 10 cps to 2000 cps @ 15G ±10% maximum for 12 logarithmic swings each of 20 minute duration repeated for each of three mutually perpendicular planes. Shock: 50G, 11 MS.

Marking: Color coded per MIL-C-15305D.

Material	Nytronics Catalog No.	L uH	Q min	MC	Approx. Cd uuF	Max DCR at 125°C Ω	Max. I mA	Incr.† I mA
PHENOLIC	MS75087-1	0.10	50	25	0.67	0.025	2900	>2900
	MS75087-2	0.12	51	25	0.67	0.034	2800	>2800
	MS75087-3	0.15	51	25	0.67	0.037	2750	>2750
	MS75087-4	0.18	50	25	0.67	0.047	2200	>2200
	MS75087-5	0.22	49	25	0.67	0.067	1700	>1700
	MS75087-6	0.27	47	25	0.67	0.11	1500	>1500
	MS75087-7	0.33	46	25	0.67	0.13	1300	>1300
	MS75087-8	0.39	44	25	0.67	0.18	1100	>1100
	MS75087-9	0.47	44	25	0.67	0.25	1000	>1000
	MS75087-10	0.56	43	25	0.67	0.33	900	> 900
	MS75087-11	0.68	42	25	0.67	0.45	750	> 750
	MS75087-12	0.82	40	25	0.67	0.59	600	> 600
IRON	MS75088-1	1.0	47	25	0.84	0.070	1900	>1900
	MS75088-2	1.2	46	7.9	0.83	0.093	1600	>1600
	MS75088-3	1.5	45	7.9	0.83	0.12	1300	>1300
	MS75088-4	1.8	43	7.9	0.83	0.14	1200	>1200
	MS75088-5	2.2	45	7.9	0.73	0.19	1100	>1100
	MS75088-6	2.7	46	7.9	0.73	0.28	950	> 950
	MS75088-7	3.3	44	7.9	0.76	0.35	800	> 800
	MS75088-8	3.9	44	7.9	0.73	0.40	750	> 750
	MS75088-9	4.7	44	7.9	0.73	0.55	650	> 650
	MS75088-10	5.6	47	7.9	0.73	0.72	550	> 550
	MS75088-11	6.8	50	7.9	0.78	1.02	500	> 500
	MS75088-12	8.2	50	7.9	0.78	1.32	475	> 475
	MS75088-13	10	49	7.9	0.84	1.62	450	> 450
	MS75088-14	12	55	2.5	0.73	2.00	400	> 400
FERRITE	MS75089-1	15	44	2.5	0.48	0.80	620	250
	MS75089-2	18	45	2.5	0.48	0.89	610	235
	MS75089-3	22	46	2.5	0.48	0.96	600	220
	MS75089-4	27	49	2.5	0.48	1.19	500	200
	MS75089-5	33	45	2.5	0.48	1.37	490	190
	MS75089-6	39	53	2.5	0.48	1.93	410	180
	MS75089-7	47	52	2.5	0.48	2.11	400	175
	MS75089-8	56	49	2.5	0.48	2.23	380	160
	MS75089-9	68	51	2.5	0.50	2.70	370	150
	MS75089-10	82	45	2.5	1.70	2.44	360	140

Material	Nytronics Catalog No.	L uH	Q min	MC	Min. Fo MC	Max DCR at 125°C Ω	Max. I mA	Incr.† I mA
FERRITE	MS75089-11	100	52	2.5	10.0	3.12	325	120
	MS75089-12	120	57	0.79	9.7	3.60	290	95
	MS75089-13	150	56	0.79	8.5	4.10	275	90
	MS75089-14	180	60	0.79	8.0	4.40	260	85
	MS75089-15	220	58	0.79	7.5	5.00	250	80
	MS75089-16	270	60	0.79	7.0	5.80	240	70
	MS75089-17	330	54	0.79	6.5	6.40	225	65
	MS75089-18	390	67	0.79	6.2	7.40	200	60
	MS75089-19	470	60	0.79	5.7	9.50	180	58
	MS75089-20	560	60	0.79	4.7	10.5	174	55
	MS75089-21	680	60	0.79	4.5	11.8	168	50
	MS75089-22	820	57	0.79	4.2	13.0	152	45
	MS75089-23	1000	60	0.79	3.8	17.5	135	40
	MS75089-24	1200	45	0.25	1.5	22.1	115	35
	MS75089-25	1500	49	0.25	1.2	26.5	110	33
	MS75089-26	1800	47	0.25	1.0	29.9	105	30
	MS75089-27	2200	50	0.25	0.97	33.8	99	27
	MS75089-28	2700	47	0.25	0.92	47.3	83	25
	MS75089-29	3300	43	0.25	0.84	53.0	80	22
	MS75089-30	3900	43	0.25	0.80	73.8	67	20
	MS75089-31	4700	44	0.25	0.74	81.6	63	19
	MS75089-32	5600	45	0.25	0.73	98.9	56	17
	MS75089-33	6800	43	0.25	0.66	111.0	54	16
	MS75089-34	8200	42	0.25	0.54	119.0	52	15
	MS75089-35	10,000	39	0.25	0.47	137.0	49	14
	MS75089-36	12,000	31	0.079	0.33	143.0	46	13
	MS75089-37	15,000	31	0.079	0.29	157.0	45	12
	MS75089-38	18,000	31	0.079	0.28	175.0	41	10
	MS75089-39	22,000	27	0.079	0.25	274.0	33	9
	MS75089-40	27,000	27	0.079	0.21	308.0	31	8
	MS75089-41	33,000	27	0.079	0.19	343.0	30	7.5
	MS75089-42	39,000	27	0.079	0.17	376.0	27	6.0
	MS75089-43	47,000	23	0.079	0.16	473.0	26	5.5
	MS75089-44	56,000	23	0.079	0.14	512.0	25	5.0
	MS75089-45	68,000	23	0.079	0.13	580.0	24	4.0
	MS75089-46	82,000	21	0.079	0.12	618.0	23	3.5
	MS75089-47	100,000	18	0.079	0.11	678.0	22	3.0

† INCREMENTAL CURRENT: The D.C. current required to cause a 5% reduction in the nominal inductance value.

652

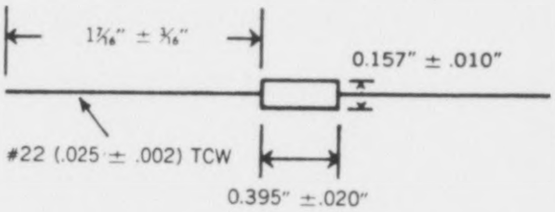
Nytronics Components Group Inc.
ORANGE STREET, DARLINGTON, S. C. 29532
(803) 393-5421 • TWX 810-665-2182

Inductors

MS-INDUCTOR SERIES
90537
MOLDED SHIELDED INDUCTOR
(Manufactured per MS-90537)

Ultra-Reliable Molded Shielded Miniature Inductor.
Inductance Range: 0.1uH to 100,000uH.
Unique "T" design eliminates Fine Wire considerations.

The **MS-INDUCTOR SERIES** are R.F. Inductors specifically designed to meet the demanding requirements of MIL-C-15305D, Grade 1, Class B. The unique "T" design eliminates fine wire consideration that has previously concerned design engineers on critical circuitry. The MS-INDUCTOR Series epoxy molded envelope and shielding offers the design engineer reliability, electrical performance, and minimum coupling in high density packaging.



ELECTRICAL CHARACTERISTICS

Inductance Tolerance: ±10% over the entire inductance range.
Dielectric Strength: 700 volts RMS at sea level.
Self-Resonant Frequency: Measured per MIL-C-15305D.
Q and Rp Values: Measured on a Q-Meter. Minimum Rp values at listed frequencies are all conservative.
Maximum Current: Based on temperature rise not to exceed 35°C at 90°C ambient.

DENSITY CHARACTERISTICS

Volume: 0.0076 cubic inches **Weight:** 0.75 grams maximum
Shielding: At 1000 cycles two units assembled side by side exhibit less than 3% coupling.

PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS

Operating Temperature: —55°C to +125°C.

Terminal Strength: Meets five pound pull test; five 360° rotations in alternate directions per MIL-C-15305D.

Moisture, Vibration, and Shock Resistance: Meets requirements of MIL-C-15305D, Grade 1, Class B. High frequency 10 cps to 2000 cps @ 15G ±10% maximum for 12 logarithmic swings each of 20 minute duration repeated for each of three mutually perpendicular planes. Shock: 50G, 11 MS.

Marking: Color coded per MIL-C-15305D.

MATERIAL	NYTRONICS CATALOG NO.	L	Q min		approx. Cd	Max DCR at 125°C	Max. I	Incr.** I
		uH		MC	uuF	Ω	mA	mA
PHENOLIC	90537- 1	0.10	50	25	0.67	0.025	2900	>2900
	90537- 2	0.12	51	25	0.67	0.034	2800	>2800
	90537- 3	0.15	51	25	0.67	0.037	2750	>2750
	90537- 4	0.18	50	25	0.67	0.047	2200	>2200
	90537- 5	0.22	49	25	0.67	0.067	1700	>1700
	90537- 6	0.27	47	25	0.67	0.11	1500	>1500
	90537- 7	0.33	46	25	0.67	0.13	1300	>1300
	90537- 8	0.39	44	25	0.67	0.18	1100	>1100
	90537- 9	0.47	44	25	.067	0.25	1000	>1000
	90537-10	0.56	43	25	0.67	0.33	900	> 900
	90537-11	0.68	42	25	0.67	0.45	750	> 750
	90537-12	0.82	40	25	0.67	0.59	600	> 600
IRON	90537-13	1.0	47	25	0.84	0.070	1900	>1900
	90537-14	1.2	46	7.9	0.83	0.093	1600	>1600
	90537-15	1.5	45	7.9	0.83	0.12	1300	>1300
	90537-16	1.8	43	7.9	0.83	0.14	1200	>1200
	90537-17	2.2	45	7.9	0.73	0.19	1100	>1100
	90537-18	2.7	46	7.9	0.73	0.28	950	> 950
	90537-19	3.3	44	7.9	0.76	0.35	800	> 800
	90537-20	3.9	44	7.9	0.73	0.40	750	> 750
	90537-21	4.7	44	7.9	0.73	0.55	650	> 650
	90537-22	5.6	47	7.9	0.73	0.72	550	> 550
	90537-23	6.8	50	7.9	0.78	1.02	500	> 500
	90537-24	8.2	50	7.9	0.78	1.32	475	> 475
	90537-25	10	49	7.9	0.84	1.62	450	> 450
	90537-26	12	55	2.5	0.73	2.00	400	> 400
FERRITE	90537-27	15	44	2.5	0.48	0.80	620	250
	90537-28	18	45	2.5	0.48	0.89	610	235
	90537-29	22	46	2.5	0.48	0.96	600	220
	90537-30	27	49	2.5	0.48	1.19	500	200
	90537-31	33	45	2.5	0.48	1.37	490	190
	90537-32	39	53	2.5	0.48	1.93	410	180
	90537-33	47	52	2.5	0.48	2.11	400	175
	90537-34	56	49	2.5	0.48	2.23	380	160
	90537-35	68	51	2.5	0.50	2.70	370	150
	90537-36	82	45	2.5	1.70	2.44	360	140

MATERIAL	NYTRONICS CATALOG NO.	L	Q min		min. Fo	Max DCR at 125°C	Max I	Incr.** I
		uH		MC	MC	Ω	mA	mA
FERRITE	90537-37	100	52	2.5	10.0	3.12	325	120
	90537-38	120	57	.79	9.7	3.60	290	95
	90537-39	150	56	.79	8.5	4.10	275	90
	90537-40	180	60	.79	8.0	4.40	260	85
	90537-41	220	58	.79	7.5	5.00	250	80
	90537-42	270	60	.79	7.0	5.80	240	70
	90537-43	330	54	.79	6.5	6.40	225	65
	90537-44	390	67	.79	6.2	7.40	200	60
	90537-45	470	60	.79	5.7	9.50	180	58
	90537-46	560	60	.79	4.7	10.5	174	55
	90537-47	680	60	.79	4.5	11.8	168	50
	90537-48	820	57	.79	4.2	13.0	152	45
	90537-49	1000	65	.79	3.8	17.5	135	40
	90537-50	1200	45	.25	1.5	22.1	115	35
	90537-51	1500	49	.25	1.2	26.5	110	33
	90537-52	1800	47	.25	1.0	29.9	105	30
	90537-53	2200	50	.25	0.97	33.8	99	27
	90537-54	2700	47	.25	0.92	47.3	83	25
	90537-55	3300	43	.25	0.84	53.0	80	22
	90537-56	3900	43	.25	0.80	73.8	67	20
	90537-57	4700	44	.25	0.74	81.6	63	19
	90537-58	5600	45	.25	0.73	98.9	56	17
	90537-59	6800	43	.25	0.66	111.0	54	16
	90537-60	8200	42	.25	0.54	119.0	52	15
	90537-61	10,000	39	.25	0.47	137.0	49	14
	90537-62	12,000	31	.079	0.33	143.0	46	13
	90537-63	15,000	31	.079	0.29	157.0	45	12
	90537-64	18,000	31	.079	0.28	175.0	41	10
	90537-65	22,000	27	.079	0.25	274.0	33	9
	90537-66	27,000	27	.079	0.21	308.0	31	8
	90537-67	33,000	27	.079	0.19	343.0	30	7.5
	90537-68	39,000	27	.079	0.17	376.0	27	6.0
	90537-69	47,000	23	.079	0.16	473.0	26	5.5
	90537-70	56,000	23	.079	0.14	512.0	25	5.0
	90537-71	68,000	23	.079	0.13	580.0	24	4.0
	90537-72	82,000	21	.079	0.12	618.0	23	3.5
	90537-73	100,000	18	.079	0.11	678.0	22	3.0

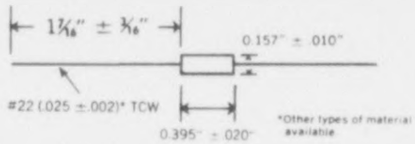
**INCREMENTAL CURRENT The D.C. current required to cause a 5% reduction in the nominal inductance value.

653

Nytronics Components Group Inc.
ORANGE STREET, DARLINGTON, S. C. 29532
(803) 393-5421 • TWX 810-665-2182

Inductors

Super Wee-Ductor Molded Shielded Inductor



Reliable Molded Shielded Miniature Inductor. Inductance Range: 0.1uH to 100,000 uH.

The **SUPER WEE-DUCTOR** is an R.F. Inductor specifically designed to meet the demanding requirements of MIL-C-15305D, Grade 1, Class B. The SUPER WEE-DUCTOR epoxy molded envelope and shielding offers the design engineer reliability, electrical performance, design flexibility, and minimum coupling in high density packaging.

ELECTRICAL CHARACTERISTICS

Inductance Tolerance: ±10% std. Other tolerances available.
Dielectric Strength: 700 volts RMS at sea level.
Self-Resonant Frequency: Measured per MIL-C-15305D.
Q and Rp Values: Measured on a Q-Meter. Minimum Rp values at listed frequencies are all conservative.
Maximum Current: Based on temperature rise not to exceed 35°C at 90°C ambient.

DENSITY CHARACTERISTICS

Volume: 0.0076 cubic inches
Weight: 0.75 grams maximum
Shielding: At 1000 cycles two units assembled side by side exhibit less than 3% coupling.

PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS

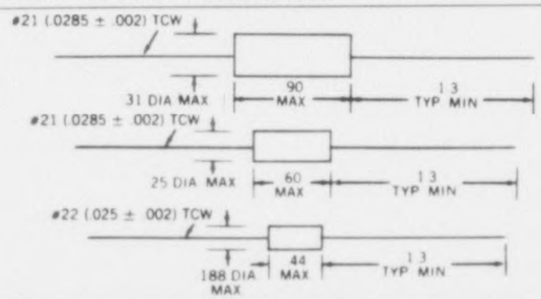
Operating Temperature: —55°C to +125°C.
Terminal Strength: Meets five pound pull test; five 360° rotations in alternate directions per MIL-C-15305D.
Moisture, Vibration, and Shock Resistance: Meets requirements of MIL-C-15305D, Grade 1, Class B. High frequency 10 cps to 2000 cps @ 15G ±10% maximum for 12 logarithmic swings each of 20 minute duration repeated for each of three mutually perpendicular planes. Shock: 50G,11 MS.
Marking: Color coded per MIL-C-15305D.

	Nytronics Catalog No.	L uH	Q Min.	Q Min. MC	Min. Fo MC	Approx Cd uuf	Max. DCR at 125°C Ω	Max. I mA	Incr.** I mA
PHENOLIC	SWD- 0.10	0.10	50	25	500	0.67	0.025	2900	>2900
	SWD- 0.12	0.12	51	25	450	0.67	0.034	2800	>2800
	SWD- 0.15	0.15	51	25	400	0.67	0.037	2750	>2750
	SWD- 0.18	0.18	50	25	375	0.67	0.047	2200	>2200
	SWD- 0.72	0.72	49	25	330	0.67	0.067	1700	>1700
	SWD- 0.27	0.27	47	25	290	0.67	0.11	1500	>1500
	SWD- 0.33	0.33	46	25	280	0.67	0.13	1300	>1300
	SWD- 0.39	0.39	44	25	255	0.67	0.18	1100	>1100
	SWD- 0.47	0.47	44	25	235	0.67	0.25	1000	>1000
	SWD- 0.56	0.56	43	25	210	0.67	0.33	900	> 900
	SWD- 0.64	0.64	42	25	190	0.67	0.45	750	> 750
	SWD- 0.82	0.82	40	25	180	0.67	0.59	600	> 600
IRON	SWD- 1.0	1.0	47	25	140	0.84	0.070	1900	>1900
	SWD- 1.2	1.2	46	7.9	130	0.83	0.093	1600	>1600
	SWD- 1.5	1.5	45	7.9	115	0.83	0.12	1300	>1300
	SWD- 1.8	1.8	43	7.9	105	0.83	0.14	1200	>1200
	SWD- 2.2	2.2	45	7.9	100	0.73	0.19	1100	>1100
	SWD- 2.7	2.7	46	7.9	92	0.73	0.28	950	> 950
	SWD- 3.3	3.3	44	7.9	85	0.76	0.35	800	> 800
	SWD- 3.9	3.9	44	7.9	75	0.73	0.40	750	> 750
	SWD- 4.7	4.7	44	7.9	70	0.73	0.55	650	> 650
	SWD- 5.6	5.6	47	7.9	65	0.73	0.72	550	> 550
	SWD- 6.8	6.8	50	7.9	55	0.78	1.02	500	> 500
	SWD- 8.2	8.2	50	7.9	50	0.78	1.32	475	> 475
	SWD-10	10	49	7.9	46	0.84	1.62	450	> 450
	SWD-12	12	55	2.5	44	0.73	2.00	400	> 400
FERR	SWD-15	15	44	2.5	49	0.48	0.80	620	250
	SWD-18	18	45	2.5	45	0.48	0.89	610	235
	SWD-22	22	46	2.5	41	0.48	0.96	600	220
	SWD-27	27	49	2.5	38	0.48	1.19	500	200
	SWD-33	33	45	2.5	34	0.48	1.37	490	190
	SWD-39	39	53	2.5	29	0.48	1.93	410	180
	SWD-47	47	52	2.5	27	0.48	2.11	400	175
	SWD-56	56	49	2.5	25	0.48	2.23	380	180
	SWD-68	68	51	2.5	21	0.50	2.70	370	150

	Nytronics Catalog No.	L uH	Q Min.	Q Min. MC	Min. Fo MC	Approx Cd uuf	Max. DCR at 125°C Ω	Max I mA	** Incr. I mA
FERRITE	SWD- 82	82	45	2.5	10.5	1.70	2.44	360	140
	SWD- 100	100	52	2.5	10.0	1.70	3.12	325	120
	SWD- 120	120	57	.79	9.7	1.40	3.60	290	95
	SWD- 150	150	56	.79	8.5	1.50	4.10	275	90
	SWD- 180	180	60	.79	8.0	1.40	4.40	260	85
	SWD- 220	220	58	.79	7.5	1.30	5.00	250	80
	SWD- 270	270	60	.79	7.0	1.30	5.80	240	70
	SWD- 330	330	54	.79	6.5	1.10	6.40	225	65
	SWD- 390	390	67	.79	6.2	1.00	7.40	200	60
	SWD- 470	470	60	.79	5.7	1.00	9.50	180	58
	SWD- 560	560	60	.79	4.7	1.30	10.5	174	55
	SWD- 680	680	60	.79	4.5	1.10	11.8	168	50
	SWD- 820	820	57	.79	4.2	1.10	13.0	152	45
	SWD- 1000	1000	65	.79	3.8	1.10	17.5	135	40
	SWD- 1200	1200	45	.25	1.5	6.20	22.1	115	35
	SWD- 1500	1500	49	.25	1.2	8.20	26.5	110	33
	SWD- 1800	1800	47	.25	1.0	8.70	29.9	105	30
	SWD- 2200	2200	50	.25	0.97	8.00	33.8	99	27
	SWD- 2700	2700	47	.25	0.92	7.00	47.3	83	25
	SWD- 3300	3300	43	.25	0.84	7.20	57.0	80	22
	SWD- 3900	3900	43	.25	0.80	6.50	73.8	67	20
	SWD- 5600	5600	45	.25	0.73	5.50	98.9	56	17
	SWD- 6800	6800	43	.25	0.66	5.50	111.0	54	16
	SWD- 8200	8200	42	.25	0.54	8.70	119.0	52	15
	SWD- 10,000	10,000	39	.25	0.47	7.30	137.0	49	14
	SWD- 12,000	12,000	31	0.79	0.33	12.0	143.0	46	13
	SWD- 18,000	18,000	31	.079	0.28	11.2	175.0	41	10
	SWD- 22,000	22,000	27	.079	0.25	11.6	274.0	33	9
	SWD- 27,000	27,000	27	.079	0.21	12.9	308.0	31	8
	SWD- 33,000	33,000	27	.079	0.19	13.3	343.0	30	7.5
	SWD- 39,000	39,000	27	.079	0.17	14.1	376.0	27	6.0
	SWD- 47,000	47,000	23	.079	0.16	13.5	473.0	26	5.5
	SWD- 56,000	56,000	23	.079	0.14	13.2	512.0	25	5.0
	SWD- 68,000	68,000	23	.079	0.13	13.2	580.0	24	4.0
	SWD- 82,000	82,000	21	.079	0.12	12.9	618.0	23	3.5
	SWD-100,000	100,000	18	.079	0.11	12.2	678.0	22	3.0

****INCREMENTAL CURRENT** The D.C. current required to cause a 5% reduction in the nominal inductance value.

Molded Non-Shielded S, M, and L Inductors



Proven reliability molded inductors designed to meet MIL-C-15305D. Inductance 0.10 to 10,000 uH in three envelopes.

These units, offer the design engineer a rugged, molded inductor that has been recognized for years throughout the industry for exceptional reliability in critical circuitry applications.

ELECTRICAL CHARACTERISTICS

Inductance Tolerance: 0.1 to 22uH ±10% on Q-Meter 27uH to 10,000 ±5% 1,000 cps bridge
Dielectric Strength: 700 volts RMS at sea level.
Self-Resonant Frequency: Minimum f_o to be not less than 80% of published data and measured with full length leads on Grid-Dip Meter.
Q and Rp Values: Measured on Q-Meter.
Rating: ⅓ watt dissipation for series S and M and ½ watt dissipation for L series.

DENSITY CHARACTERISTICS

Volume: S Type — 0.012 cu. in.
M Type — 0.029 cu. in.
L Type — 0.068 cu. in.
Weight: S Type — 0.90 grams
M Type — 2.00 grams
L Type — 4.10 grams

PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS

Operating Temperature: —55°C to +125°C.
Terminal Strength: Meets five pound pull test per MIL-C-15305D.
Moisture, Vibration, and Shock Resistance: Meets requirements of MIL-C-15305D, Grade 1, Class B. High frequency 10 cps to 2000 cps @ 15G ±10% maximum for 12 logarithmic swings, each of 20 minute duration repeated for each of three mutually perpendicular planes. (body mounted)
Marking: Manufacturer data printed

	Nytronics Catalog No.	L uH	Q Min.	Q Min. MC	Approx Fo MC	Approx Cd uuf	Max. DCR at 125°C Ω	Max. I mA
PHENOLIC	RFC-S- 0.10	0.10	85	50	>500	0.4	.02	4000
	RFC-S- 0.12	0.12	85	50	500	0.4	.025	3500
	RFC-S- 0.15	0.15	85	50	>500	0.4	.03	3000
	RFC-S- 0.18	0.18	75	50	500	0.4	.03	3000
	RFC-S- 0.22	0.22	75	50	500	0.4	.03	3000
	RFC-S- 0.27	0.27	70	45	470	0.4	.04	2700
	RFC-S- 0.33	0.33	70	40	440	0.4	.05	2500
	RFC-S- 0.39	0.39	65	40	400	0.4	.08	2000
	RFC-S- 0.47	0.47	60	25	360	0.4	.08	2000
	RFC-S- 0.56	0.56	55	25	330	0.4	.10	1700
	RFC-S- 0.68	0.68	55	25	300	0.4	.12	1500
	RFC-S- 0.82	0.82	50	25	275	0.4	.18	1300
	RFC-S- 1.0	1.0	50	20	250	0.4	.24	1100
	RFC-S- 1.2	1.2	45	20	220	0.4	.35	1000
	RFC-S- 1.5	1.5	45	15	200	0.4	.43	850
	RFC-S- 1.8	1.8	45	15	180	0.4	.85	720
	RFC-S- 2.2	2.2	45	15	165	0.4	.80	610
IRON	RFC-S- 2.7	2.7	55	10	110	0.7	.12	1600
	RFC-S- 3.3	3.3	55	10	100	0.7	.15	1400
	RFC-S- 3.9	3.9	60	10	95	0.7	.23	1200
	RFC-S- 4.7	4.7	70	7.9	90	0.7	.30	1000
	RFC-S- 5.6	5.6	65	7.9	80	0.7	.45	900
	RFC-S- 6.8	6.8	65	7.9	70	0.7	.55	800
	RFC-S- 8.2	8.2	60	7.9	65	0.7	.65	720
	RFC-S-10	10	60	5	60	0.7	.73	650
	RFC-S-12	12	65	5	53	0.7	1.1	580
	RFC-S-15	15	80	2.5	47	0.7	1.4	500
	RFC-S-18	18	75	2.5	43	0.7	1.6	460
	RFC-S-22	22	75	2.5	40	0.7	1.8	430
	RFC-S-27	27	75	2.5	36	0.7	2.7	360

	Nytronics Catalog No.	L uH	Q Min.	Q Min. MC	Approx Fo MC	Approx Cd uuf	Max. DCR at 125°C Ω	Max. I mA
IRON	RFC-S- 33	33	85	2.5	32	0.7	3.5	300
	RFC-S- 39	39	80	2.5	26	0.9	3.8	290
	RFC-S- 47	47	80	2.5	22	1.1	4.0	275
	RFC-S- 56	56	75	2.5	19	1.3	4.4	265
	RFC-S- 68	68	75	2.5	16	1.5	4.7	250
	RFC-S- 82	82	75	2.5	13	2.0	5.3	235
	RFC-S- 100	100	75	1.5	10	2.5	6.0	220
	RFC-M- 120	120	95	1.5	14	1.1	7.5	200
	RFC-M- 150	150	90	1.0	11	1.3	8	190
	RFC-M- 180	180	85	1.0	9	1.8	9	185
	RFC-M- 220	220	85	1.0	7	2.2	10	180
	RFC-M- 270	270	80	1.0	5.5	3.0	11	172
	RFC-M- 330	330	80	.8	4.5	3.8	12	165
	RFC-M- 390	390	75	.8	4.0	4.1	13	157
	RFC-M- 470	470	75	.8	3.5	4.4	14	150
	RFC-M- 560	560	65	.8	3.1	4.7	16	145
	RFC-M- 680	680	65	.8	2.7	5.0	17	140
	RFC-M- 820	820	65	.8	2.5	5.0	19	132
	RFC-M- 1000	1000	70	.5	2.3	5.0	21	125
	RFC-L- 1200	1200	75	.5	2.1	4.4	27	137
	RFC-L- 1500	1500	75	.4	1.9	4.5	29	130
	RFC-L- 1800	1800	65	.4	1.7	4.6	32	125
	RFC-L- 2200	2200	65	.25	1.5	4.7	35	120
	RFC-L- 2700	2700	65	.25	1.3	5.0	40	112
	RFC-L- 3300	3300	65	.25	1.2	5.3	45	105
	RFC-L- 3900	3900	65	.25	1.05	5.6	49	100
	RFC-L- 4700	4700	65	.25	.95	6.2	53	95
	RFC-L- 5600	5600	65	.25	.85	6.3	60	90
	RFC-L- 6800	6800	65	.25	.75	6.3	67	85
	RFC-L- 8200	8200	65	.25	.65	7.2	75	82
	RFC-L- 10000	1000	65	.15	58	7.8	80	75

654

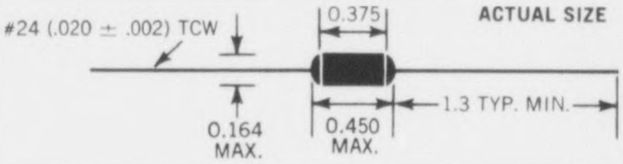
Nytronics Components Group Inc.
ORANGE STREET, DARLINGTON, S. C. 29532
(803) 393-5421 • TWX 810-665-2182

Inductors

WEE-DUCTOR

Miniature Shielded Inductor with high inductance-to-size ratio.
0.10uH to 180,000uH in 76 values
Designed to meet MIL-C-15305C.

The **WEE-DUCTOR** was the first miniature shielded inductor that Nytronics standardized for stock delivery. This encapsulated non-flammable shielded unit in a 0.164" diameter by 0.450" long envelope offers the design engineer extremely high inductance for density packaging. The WEE-DUCTOR is designed to meet the environmental requirements of MIL-C-15305D Grade 1, Class B.



ELECTRICAL CHARACTERISTICS

Inductance Tolerance: 0.1 to 22uH ±10% (Q-Meter); 27uH to 1,000 ±5% (1KC Bridge); 1,200uH to 56,000uH ±10% (1KC Bridge) 68,000uH to 180,000uH ±20% (1KC Bridge) measured at point on leads ⅓ inch from body.

Dielectric Strength: 700 volts RMS at sea level.

Self-Resonant Frequency: Minimum f_s to be not less than 80% of published data, and measured with full length leads on Q-Meter.

Q and Rp Values: Measured on Q-Meter. Minimum Rp values on published data sheet are conservative.

Maximum Current: Based on temperature rise not to exceed 40°C at 85°C ambient.

DENSITY CHARACTERISTICS

Volume: 0.0087 cubic inches **Weight:** 0.75 grams maximum
Shielding: Less than 3% coupling with two units measured side by side at 1000 cycles.

PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS

Operating Temperature: —55°C to +125°C.
Terminal Strength: Meets five pound pull test; five 360° rotations in alternate directions per MIL-C-15305D.
Moisture, Vibration, and Shock Resistance: Meets requirements of MIL-C-15305D, Grade 1, Class B. Low frequency 10 to 55 cps @ .06" maximum total excursion at rate of 1 linear sweep per minute for 2 hours repeated for each of three mutually perpendicular planes. Shock: 50G, 11 MS.
Marking: Printed with pertinent data.

MATERIAL	NYTRONICS PART NO.	L	Q min		approx. Fo	approx. Cd	Max. DCR at 125°C	Max. I	Incr* I
		uH		MC	MC	uuF	Ω	mA	mA
PHENOLIC	WEE- 0.10	0.10	63	25	>500	0.67	0.020	4000	4000
	WEE- 0.12	0.12	61	25	>500	0.67	0.029	3350	3350
	WEE- 0.15	0.15	59	25	>500	0.67	0.032	3000	3000
	WEE- 0.18	0.18	57	25	458	0.67	0.040	2850	2850
	WEE- 0.22	0.22	56	25	414	0.67	0.045	2700	2700
	WEE- 0.27	0.27	50	25	373	0.67	0.08	2000	2000
	WEE- 0.33	0.33	48	25	337	0.67	0.09	1900	1900
	WEE- 0.39	0.39	48	25	310	0.67	0.16	1420	1420
	WEE- 0.47	0.47	48	25	283	0.67	0.17	1400	1400
	WEE- 0.56	0.56	45	25	258	0.67	0.36	960	960
	WEE- 0.68	0.68	45	25	235	0.67	0.37	940	940
	WEE- 0.82	0.82	41	25	214	0.67	0.46	870	870
IRON	WEE- 1.0	1.0	42	7.9	164	0.92	0.062	2300	2300
	WEE- 1.2	1.2	43	7.9	150	0.92	0.067	2200	2200
	WEE- 1.5	1.5	41	7.9	135	0.92	0.16	1420	1420
	WEE- 1.8	1.8	42	7.9	124	0.92	0.17	1370	1370
	WEE- 2.2	2.2	42	7.9	112	0.92	0.19	1300	1300
	WEE- 2.7	2.7	41	7.9	107	0.92	0.20	1270	1270
	WEE- 3.3	3.3	40	7.9	91.5	0.92	0.31	1030	1030
	WEE- 3.9	3.9	40	7.9	84.5	0.92	0.33	1000	1000
	WEE- 4.7	4.7	40	7.9	76.5	0.92	0.58	750	750
	WEE- 5.6	5.6	40	7.9	69.5	0.92	0.64	710	710
	WEE- 6.8	6.8	40	7.9	63.5	0.92	0.68	680	680
	WEE- 8.2	8.2	45	7.9	57.5	0.92	1.3	500	500
	WEE- 10	10	46	2.5	52.5	0.92	1.4	480	480
	WEE- 12	12	47	2.5	47.5	0.92	1.5	460	460
	WEE- 15	15	47	2.5	42.5	0.92	1.7	440	440
FERRITE	WEE- 18	18	45	2.5	53.5	0.49	0.88	610	235
	WEE- 22	22	47	2.5	47.0	0.50	0.95	590	220
	WEE- 27	27	42	2.5	44.0	0.48	1.15	530	200
	WEE- 33	33	43	2.5	40.0	0.48	1.2	520	193
	WEE- 39	39	45	2.5	36.5	0.48	1.6	450	183
	WEE- 47	47	46	2.5	33.0	0.49	1.8	420	177
	WEE- 56	56	40	2.5	30.0	0.49	2.2	390	170
	WEE- 68	68	40	2.5	27.0	0.50	2.3	375	165
	WEE- 82	82	42	2.5	17.5	1.0	2.4	360	160
	WEE- 100	100	63	79	15.0	1.0	2.6	345	157
	WEE- 120	120	62	79	14.0	1.0	2.9	330	145

MATERIAL	NYTRONICS PART NO.	L	Q min		approx. Fo	approx. Cd	Max. DCR at 125°C	Max. I	Incr* I
		uH		MC	MC	uuF	Ω	mA	mA
FERRITE	WEE- 150	150	63	.79	12.5	1.0	3.3	315	126
	WEE- 180	180	60	.79	11.5	1.0	3.6	300	110
	WEE- 220	220	57	.79	11.0	0.94	4.1	280	105
	WEE- 270	270	52	.79	10.0	0.92	4.8	260	91
	WEE- 330	330	50	.79	9.0	0.92	5.6	240	87
	WEE- 390	390	43	.79	8.5	0.87	6.2	230	72
	WEE- 470	470	66	.79	8.0	0.83	10.0	180	67
	WEE- 560	560	64	.79	7.5	0.82	11.5	170	65
	WEE- 680	680	71	.79	6.5	0.87	12.0	160	60
	WEE- 820	820	67	.79	6.0	0.87	13.8	150	55
	WEE- 1000	1000	62	.79	5.6	0.87	16.0	140	52
	WEE- 1200	1200	52	.250	1.490	9.0	18.2	135	50
	WEE- 1500	1500	51	.250	1.460	8.0	23.7	118	48
	WEE- 1800	1800	51	.250	1.420	6.5	30.2	105	42
	WEE- 2200	2200	50	.250	1.300	6.8	33.7	99	37
	WEE- 2700	2700	51	.250	1.180	6.8	43.1	87	33
	WEE- 3300	3300	52	.250	1.050	7.0	48.7	82	30
	WEE- 3900	3900	48	.250	.960	7.0	62.7	72	29
	WEE- 4700	4700	48	.250	.840	7.4	70.5	68	28
	WEE- 5600	5600	48	.250	.810	6.8	104	56	24
	WEE- 6800	6800	45	.250	.740	6.8	118	53	20
	WEE- 8200	8200	38	.250	.580	9.2	146	47	18
	WEE- 10,000	10,000	36	.079	.470	11.5	76.6	66	15
	WEE- 12,000	12,000	36	.079	.370	15.0	109	55	14
	WEE- 15,000	15,000	38	.079	.330	15.0	119	52	13
	WEE- 18,000	18,000	38	.079	.305	15.0	138	49	13
	WEE- 22,000	22,000	32	.079	.295	13.0	219	39	12
	WEE- 27,000	27,000	32	.079	.270	13.0	259	35	12
	WEE- 33,000	33,000	32	.079	.250	12.5	296	33	11
	WEE- 39,000	39,000	30	.079	.215	14.0	395	29	10
	WEE- 47,000	47,000	25	.079	.210	12.5	452	27	9
	WEE- 56,000	56,000	25	.079	.195	12.0	499	26	8
	WEE- 68,000	68,000	20	.079	.130	18.4	395	29	1.1
	WEE- 82,000	82,000	20	.079	.125	16.5	452	27	1.1
	WEE-100,000	100,000	20	.079	.115	16.2	499	26	1.1
	WEE-120,000	120,000	20	.070	.105	16.8	540	23	1.1
	WEE-150,000	150,000	20	.060	.098	13.4	750	20	1.0
	WEE-180,000	180,000	20	.050	.094	13.4	880	18	0.8

*Incremental Current: The D.C. current required to cause a maximum reduction of 5 percent from nominal inductance value.

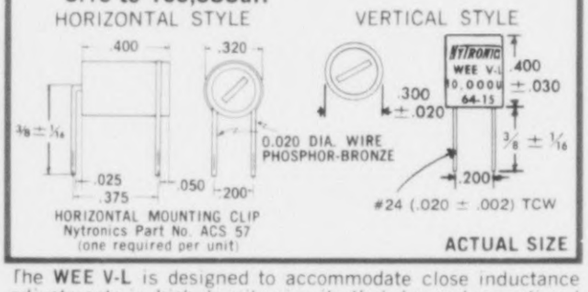
655

Nytronics Components Group Inc.
ORANGE STREET, DARLINGTON, S. C. 29532
(803) 393-5421 • TWX 810-665-2182

VARIABLE INDUCTORS

WEE V-L

NOW MIL APPROVED MIL-C-15305D — MS21388
Subminiature Shielded Adjustable Inductor
High Q Values
Vertical or Horizontal* Mounting
Unitized Epoxy-Molded Construction
0.400" by 0.300"
0.10 to 100,000uH



The **WEE V-L** is designed to accommodate close inductance adjustments in high-density circuits that demand exceptional stability and high "Q" in the smallest size available.
The **WEE V-L** is qualified MIL-C-15305, Grade 1, Class B. Printed board mounting is facilitated by 0.200 grid spacing and unit has shield construction to allow maximum density packaging. Standardized in 73 stock values.

ELECTRICAL CHARACTERISTICS

Adjustable Inductance Range: ±10%** over entire range as measured per MIL-C-15305 D.

Q and f_o Values: Minimum not less than 80% of specified value at L nominal.

Dielectric Strength: 840 Volts R.M.S. at sea level.

Working Voltage: 300 Volts D.C.

Maximum Current: Based on temperature rise not to exceed 35°C at 90°C ambient.

Incremental Current: Defined as the DC current required to cause a five percent reduction in the nominal inductance value.

DENSITY CHARACTERISTICS

Weight: 1.5 grams maximum

Volume: .0346 cubic inches

Shielding: 3% coupling maximum when two units are tested side by side.

PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS

Use Nytronics Tuning Tool No. B-469 or equal.

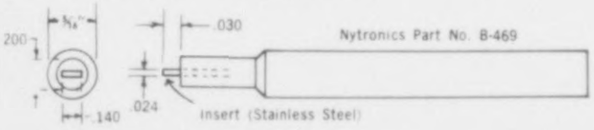
Torque: 0.75 to 6.0 inch-oz.

Operating Temperature: −55°C to +125°C.

Moisture, Vibration, and Shock Resistance: Meet requirements of MIL-C-15305D, Grade 1, Class B. Low frequency 10 to 55 cps @ .06" maximum total excursion at rate of 1 linear sweep per minute for 2 hours repeated for each of three mutually perpendicular planes. Shock: 50G, 11 MS. (body mounted)

Marking: Manufacturer data printed.

Terminal Pull: Three pounds.



Nytronics Catalog No.		L nom. uH	f MC	Q nom.	Fo nom. MC	D.C.R. 25°C max. ohms	Max. I m.a.	Incr. I m.a.
MS21381-1	WEE V-L† 0.10	.10	25	70	>250	0.030	2500	2500
MS21381-2	WEE V-L† 0.12	.12	25	70	>250	0.030	2500	2500
MS21381-3	WEE V-L 0.15	.15	25	70	>250	0.030	2500	2500
MS21381-4	WEE V-L 0.18	.18	25	70	>250	0.035	2400	2400
MS21381-5	WEE V-L 0.22	.22	25	70	>250	0.038	2300	2300
MS21381-6	WEE V-L 0.27	.27	25	80	>250	0.040	2200	2200
MS21381-7	WEE V-L 0.33	.33	25	80	>250	0.040	2200	2200
MS21381-8	WEE V-L 0.39	.39	25	80	250	0.045	2100	2100
MS21381-9	WEE V-L 0.47	.47	25	80	230	0.045	2100	2100
MS21381-10	WEE V-L 0.56	.56	25	80	220	0.050	2000	2000
MS21381-11	WEE V-L 0.68	.68	25	80	190	0.055	1900	1900
MS21381-12	WEE V-L 0.82	.82	25	85	180	0.060	1800	1800
MS21381-13	WEE V-L 1.00	1.00	25	85	160	0.070	1700	1700
MS21381-14	WEE V-L 1.2	1.2	7.9	90	170	0.085	1670	1670
MS21381-15	WEE V-L 1.5	1.5	7.9	100	155	0.100	1540	1540
MS21381-16	WEE V-L 1.8	1.8	7.9	115	135	0.110	1470	1470
MS21381-17	WEE V-L 2.2	2.2	7.9	110	120	0.120	1410	1410
MS21381-18	WEE V-L 2.7	2.7	7.9	110	104	0.125	1380	1380
MS21381-19	WEE V-L 3.3	3.3	7.9	90	93.0	0.165	1200	1200
MS21381-20	WEE V-L 3.9	3.9	7.9	90	87.0	0.180	1135	1135
MS21381-21	WEE V-L 4.7	4.7	7.9	95	79.0	0.245	985	985
MS21381-22	WEE V-L 5.6	5.6	7.9	95	72.0	0.265	950	950
MS21381-23	WEE V-L 6.8	6.8	7.9	85	63.0	0.330	853	853
MS21381-24	WEE V-L 8.2	8.2	7.9	95	60.0	0.460	720	720
MS21381-25	WEE V-L 10	10	7.9	90	54.0	0.540	620	620
MS21381-26	WEE V-L 12	12	2.5	120	37.0	0.800	545	545
MS21381-27	WEE V-L 15	15	2.5	120	28.8	0.865	520	520
MS21381-28	WEE V-L 18	18	2.5	115	23.8	0.940	504	504
MS21381-29	WEE V-L 22	22	2.5	125	21.3	1.03	460	460
MS21381-30	WEE V-L 27	27	2.5	115	20.6	1.18	418	418
MS21381-31	WEE V-L 33	33	2.5	120	18.6	1.30	398	398
MS21381-32	WEE V-L 39	39	2.5	120	17.7	1.41	385	385
MS21381-33	WEE V-L 47	47	2.5	110	14.9	1.61	350	350
MS21381-34	WEE V-L 56	56	2.5	115	13.9	2.08	330	330
MS21381-35	WEE V-L 68	68	2.5	105	12.9	2.20	320	320
MS21381-36	WEE V-L 82	82	2.5	105	11.7	2.42	300	300
MS21381-27	WEE V-L 100	100	2.5	95	10.5	2.15	333	333
MS21381-38	WEE V-L 120	120	0.790	95	5.60	2.38	316	190
MS21381-39	WEE V-L 150	150	0.790	90	5.20	2.52	306	175
MS21381-40	WEE V-L 180	180	0.790	95	4.90	2.88	288	150
MS21381-41	WEE V-L 220	220	0.790	95	4.60	3.18	273	125
MS21381-42	WEE V-L 270	270	0.790	100	4.20	3.50	260	120
MS21381-43	WEE V-L 330	330	0.790	100	3.55	4.80	222	110
MS21381-44	WEE V-L 390	390	0.790	100	3.45	5.44	209	105
MS21381-45	WEE V-L 470	470	0.790	100	3.20	5.90	201	100
MS21381-46	WEE V-L 560	560	0.790	95	2.90	6.30	194	90
MS21381-47	WEE V-L 680	680	0.790	100	2.70	7.20	181	80
MS21381-48	WEE V-L 820	820	0.790	90	2.50	8.00	172	70
MS21381-49	WEE V-L 1,000	1,000	0.790	100	2.35	12.0	141	65
MS21381-50	WEE V-L 1,200	1,200	0.250	95	2.20	13.5	132	60
MS21381-51	WEE V-L 1,500	1,500	0.250	90	1.90	16.5	119	55
MS21381-52	WEE V-L 1,800	1,800	0.250	100	1.80	18.0	114	47
MS21381-53	WEE V-L 2,200	2,200	0.250	100	1.70	20.5	107	43
MS21381-56	WEE V-L 2,700	2,700	0.250	95	1.50	22.5	102	39
MS21381-55	WEE V-L 3,300	3,300	0.250	90	1.40	42.0	76	36
MS21381-56	WEE V-L 3,900	3,900	0.250	85	1.27	47.5	71	35
MS21381-57	WEE V-L 4,700	4,700	0.250	85	1.24	53.0	67	34
MS21381-58	WEE V-L 5,600	5,600	0.250	85	0.93	62.5	65	31
MS21381-59	WEE V-L 6,800	6,800	0.250	75	0.79	69.5	58	27
MS21381-60	WEE V-L 8,200	8,200	0.250	80	0.75	75.0	56	26
MS21381-61	WEE V-L 10,000	10,000	0.250	70	0.70	100.0	49	24
MS21381-62	WEE V-L 12,000	12,000	0.079	70	0.50	64	60	40
MS21381-63	WEE V-L 15,000	15,000	0.079	70	0.38	84	52	34
MS21381-64	WEE V-L 18,000	18,000	0.079	70	0.36	93	50	30
MS21381-65	WEE V-L 22,000	22,000	0.079	70	0.32	104	45	28
MS21381-66	WEE V-L 27,000	27,000	0.079	70	0.30	173	35	26
MS21381-67	WEE V-L 33,000	33,000	0.079	70	0.27	187	32	24
MS21381-68	WEE V-L 39,000	39,000	0.079	70	0.26	220	30	22
MS21381-69	WEE V-L 47,000	47,000	0.079	70	0.25	253	28	20
MS21381-70	WEE V-L 56,000	56,000	0.079	70	0.24	285	26	19
MS21381-71	WEE V-L 68,000	68,000	0.079	60	0.20	311	24	18
MS21381-72	WEE V-L 82,000	82,000	0.079	60	0.19	385	22	16
MS21381-73	WEE V-L 100,000	100,000	0.079	60	0.17	420	20	15

* For Horizontal mounting use Nytronics mounting clip No. ACS-57 or order with prefix H (i.e. H WEE V-L 0.10).

† Tunable range ±5.0% on 0.10uH & 0.12uH

656

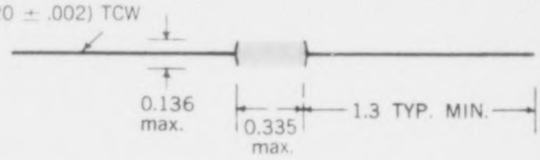
Nytronics Components Group Inc.
ORANGE STREET, DARLINGTON, S. C. 29532
(803) 393-5421 • TWX 810-665-2182

Inductors

SUPER WEE-WEE-DUCTOR

The **SUPER WEE-WEE-DUCTOR**, a shielded miniaturized inductor, provides a greater inductance-to-size ratio in a molded epoxy envelope. Use of unique "T" lead construction on all values from .10 uH to 10,000 uH assures exceptional reliability in ranges where fine wire sizes are used. Designed to meet the stringent requirements of MIL-C-15305D, Grade 1, Class B. This provides the design engineer with utmost reliability, electrical performance, and minimum coupling in high density packaging.

An Ultra-Reliable molded shielded inductor. Subminiature size for high density circuits. Great Inductance-to-size ratio. .10 uH to 10,000 uH. 0.136" diameter x 0.335" length. 61 stock values.



ELECTRICAL CHARACTERISTICS

Inductance Tolerance: ±10% (Q-Meter).
Dielectric Strength: 700 volts RMS at sea level.
Self-Resonant Frequency: Measured with full length leads on Q-Meter.
Q and Rp Values: Measured on Q-Meter.
Rating: 1 maximum based on 1/3 watt dissipation.

DENSITY CHARACTERISTICS

Volume: 0.0041 cubic inches.
Weight: 0.50 grams maximum.
Shielding: Less than 3% coupling with two units mounted side by side at 1000 cycles.

PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS

Operating Temperature: −55°C to + 125°C.
Terminal Strength: Meets five pounds pull test; five 360° rotations in alternate directions per MIL-C-15305C.
Moisture, Vibration and Shock Resistance: Meets requirements of MIL-C-15305C, Grade 1, Class B. High Frequency: 10 cps to 2000 cps @ 15G ±10% maximum for 12 lograinthmic swings each of 20 minute duration repeated for each of three mutually perpendicular planes. Shock: 50G, 11 MS.
Marking: Color coded per MIL-C-15305D.

SUPER WEE-WEE-DUCTOR STANDARD VALUES

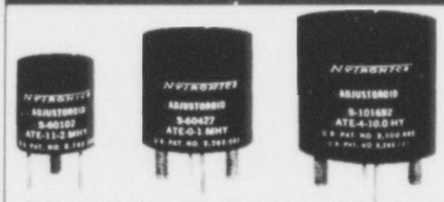
Material	Nytronics Part No.	L µH	Q min.	Q min. MC	min. Fo MC	approx. Cd Pf	Max. DCR at 25°C Ω	Max. I mA	Incr.* I mA
PHENOLIC	SW-W- 0.10	0.10	42	25	480	.70	.087	1650	>1650
	SW-W- 0.12	0.12	42	25	460	.63	.090	1630	>1630
	SW-W- 0.15	0.15	42	25	400	.66	.098	1550	>1550
	SW-W- 0.18	0.18	42	25	360	.62	.117	1420	>1420
	SW-W- 0.22	0.22	42	25	340	.63	.141	1330	>1330
	SW-W- 0.27	0.27	42	25	320	.59	.157	1230	>1230
	SW-W- 0.33	0.33	42	25	295	.55	.178	1140	>1140
	SW-W- 0.39	0.39	42	25	275	.55	.208	1060	>1060
	SW-W- 0.47	0.47	41	25	250	.56	.257	960	> 960
	SW-W- 0.56	0.56	39	25	238	.52	.283	915	> 915
	SW-W- 0.68	0.68	36	25	224	.50	.337	840	> 840
	SW-W- 0.82	0.82	35	25	205	.50	.470	720	> 720
IRON	SW-W- 1.0	1.0	38	25	135	.87	.170	1180	>1180
	SW-W- 1.2	1.2	38	7.9	124	.87	.190	1150	>1150
	SW-W- 1.5	1.5	38	7.9	114	.87	.212	1050	>1050
	SW-W- 1.8	1.8	38	7.9	105	.89	.242	990	> 990
	SW-W- 2.2	2.2	38	7.9	95	.88	.263	950	> 950
	SW-W- 2.7	2.7	38	7.9	85	.83	.320	880	> 880
	SW-W- 3.3	3.3	38	7.9	78	.81	.345	820	> 820
	SW-W- 3.9	3.9	42	7.9	74	.76	.411	755	> 755
	SW-W- 4.7	4.7	42	7.9	68	.75	.562	650	> 650
	SW-W- 5.6	5.6	42	7.9	62	.73	.742	565	> 565
	SW-W- 6.8	6.8	45	7.9	55	.80	1.00	485	> 485
	SW-W- 8.2	8.2	47	7.9	51	.78	1.20	440	> 440
	SW-W- 10	10	51	7.9	45	.78	1.84	355	> 335
	SW-W- 12	12	51	2.5	41	.85	2.60	300	> 300
FERRITE "T" LEAD	SW-W- 15	15	45	2.5	48	.55	.635	610	200
	SW-W- 18	18	45	2.5	44	.55	.728	570	175
	SW-W- 22	22	45	2.5	37	.60	.825	530	160
	SW-W- 27	27	45	2.5	32	.65	.950	500	155

Material	Nytronics Part No.	L µH	Q min.	Q min. MC	min. Fo MC	approx. Cd Pf	Max. DCR at 25°C Ω	Max. I mA	Incr.* I mA
FERRITE "T" LEAD	SW-W- 33	33	46	2.5	30	.65	1.26	430	150
	SW-W- 39	39	46	2.5	27	.66	1.42	405	145
	SW-W- 47	47	46	2.5	23	.66	1.72	370	140
	SW-W- 56	56	48	2.5	21	.75	2.03	340	130
	SW-W- 68	68	48	2.5	18.5	.75	2.29	320	120
	SW-W- 82	82	46	2.5	17.0	.75	2.55	305	115
	SW-W- 100	100	46	2.5	15.5	.78	2.92	280	100
	SW-W- 120	120	53	0.79	14.5	.72	3.30	235	80
	SW-W- 150	130	53	0.79	13.0	.70	4.30	215	68
	SW-W- 180	180	53	0.79	11.5	.70	5.40	200	64
	SW-W- 220	220	55	0.79	10.0	.84	6.65	150	60
	SW-W- 270	270	57	0.79	9.50	.74	7.60	140	58
	SW-W- 330	330	57	0.79	8.50	.75	8.50	130	56
	SW-W- 390	390	57	0.79	8.00	.74	10.0	120	54
	SW-W- 470	470	57	0.79	7.20	.70	13.5	100	52
	SW-W- 560	560	61	0.79	6.40	.70	14.5	95	50
	SW-W- 680	680	61	0.79	5.80	.78	16.0	90	48
	SW-W- 820	820	58	0.79	5.30	.78	19.0	85	47
	SW-W- 1000	1000	58	0.79	4.80	.78	21.5	80	45
	SW-W- 1200	1200	55	0.25	2.90	1.9	23	100	40
	SW-W- 1500	1500	55	0.25	2.80	1.6	30	90	35
	SW-W- 1800	1800	55	0.25	2.60	1.5	33	86	32
	SW-W- 2200	2200	55	0.25	2.55	1.3	40	78	30
	SW-W- 2700	2700	55	0.25	2.40	1.2	43	74	28
	SW-W- 3300	3300	55	0.25	2.00	1.1	58	65	26
	SW-W- 3900	3900	55	0.25	1.95	1.1	76	56	23
	SW-W- 4700	4700	55	0.25	1.85	1.1	85	53	20
	SW-W- 5600	5600	55	0.25	1.75	1.0	100	48	18
	SW-W- 6800	6800	50	0.25	1.58	1.0	127	43	15
	SW-W- 8200	8200	50	0.25	1.55	1.0	150	40	12
	SW-W-10,000	10,000	50	0.25	1.45	1.0	190	37	10

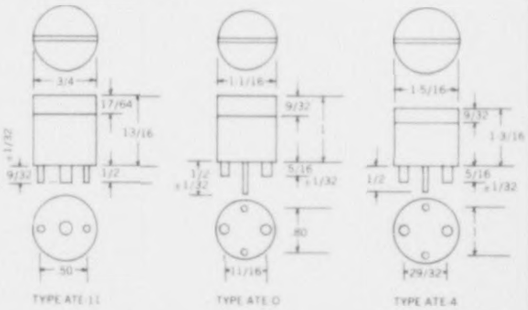
*INCREMENT CURRENT — The D.C. current required to cause a 5% reduction in the nominal inductance value.

ADJUSTOROID

(U.S. Patent Numbers 2,762,020 and 3,100,882)



Miniature Variable Toroid
Stepless Adjustment
Very High "Q"
Available to 12 Henries
Completely Hermetically Sealed
Fully Shielded



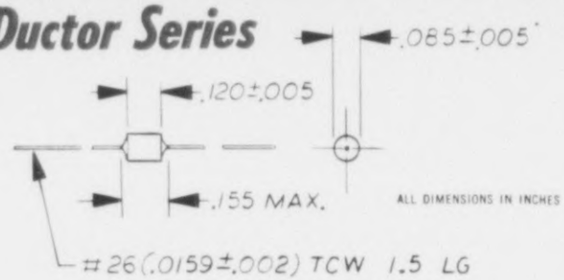
This radically new development in the toroidal coil field offers a miniature variable toroid in one of three case sizes as shown above. The **ADJUSTOROID** was developed especially for printed circuit and similar lightweight applications. This unit is hermetically sealed, and there is no physical contact between the adjusting screw and the toroidal winding.

Nytronics Components Group Inc.
ORANGE STREET, DARLINGTON, S. C. 29532
(803) 393-5421 • TWX 810-665-2182

Inductors

NEW Pee Wee Ductor Series

The amazing **PEE-WEE DUCTOR** represents a 66% size reduction from the smallest magnetically shielded axial leaded inductor series heretofore available anywhere. Furthermore, this size reduction was obtained with negligible loss of electrical performance by employing several unique concepts in RF coil design.



ELECTRICAL CHARACTERISTICS:

Inductance Tolerance: ± 10% (Std).

L.Q.F. values: Measurements per MIL-C-15305 D.

Incremental Current: Incremental current in table is for 5% reduction in inductance value.

Dielectric Strength: 300 Volts RMS @ Sea Level.

Temperature Coefficient of Inductance values: Temperature Range of −20°C to +80°C.

Inductance	Temp. Coefficient
0.10uH thru 1.0uH	+50 PPM/C
1.2uH thru 10uH	+100 PPM/C
12uH thru 100uH	+200 PPM/C
120uH thru 1000uH	+500 PPM/C

DENSITY CHARACTERISTICS:

Volume: .0007 Cubic Inches

Weight: 0.12 Grams

Shielding: 5% maximum coupling for two units side by side.

Marking: EIA color banded

PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS:

Terminal pull: 3 lbs. minimum.

Environmental: Will meet the requirements of MIL-C-15305D Grade and Class 8.

OPTIONS:

Inductance Values: Additional Inductance Values from .025 uH up to 10,000 uH available on special order.

PEE-WEE DUCTOR STANDARD VALUES

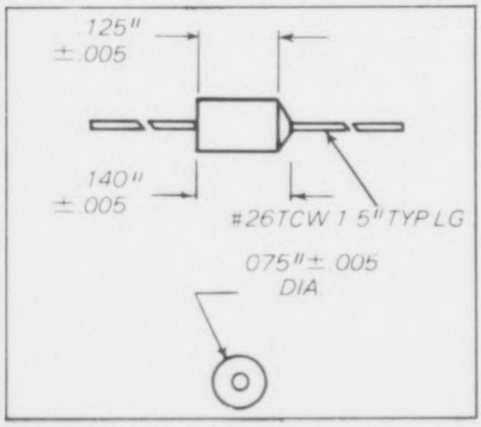
Nytronics Part No.	L UH	min. @	MC	Min. Fo MC	Max. DCR at 25°C Ω	Max. I mA	Incr. I mA
PW-0.10	.10	52	25	500	.060	1500	*
PW-0.12	.12	52	25	480	.070	1400	*
PW-0.15	.15	52	25	450	.080	1300	*
PW-0.18	.18	55	25	430	.090	1200	*
PW-0.22	.22	55	25	390	.11	1100	*
PW-0.27	.27	55	25	340	.12	1000	*
PW-0.33	.33	52	25	310	.14	950	*
PW-0.39	.39	52	25	280	.16	900	*
PW-0.47	.47	50	25	250	.20	800	*
PW-0.56	.56	50	25	220	.25	750	*
PW-0.68	.68	48	25	200	.27	700	*
PW-0.82	.82	48	25	180	.36	600	*
PW-1.0	1.0	45	25	165	.40	525	*
PW-1.2	1.2	45	7.9	150	.70	425	*
PW-1.5	1.5	45	7.9	130	.80	400	*
PW-1.8	1.8	45	7.9	120	.90	350	*
PW-2.2	2.2	45	7.9	110	1.3	320	*
PW-2.7	2.7	45	7.9	100	1.8	275	*
PW-3.3	3.3	42	7.9	70	1.7	290	*
PW-3.9	3.9	45	7.9	65	1.8	275	*
PW-4.7	4.7	45	7.9	58	2.6	225	*
PW-5.6	5.6	45	7.9	54	2.9	210	*
PW-6.8	6.8	45	7.9	50	3.3	200	*
PW-8.2	8.2	45	7.9	48	4.5	170	*

Nytronics Part No.	L uH	min. @	MC	Min. Fo MC	Max. DCR at 25°C Ω	Max. I mA	Incr. I mA
PW- 10	10	45	7.9	45	4.8	165	*
PW- 12	12	45	2.5	40	2.0	250	230
PW- 15	15	45	2.5	38	2.5	230	180
PW- 18	18	45	2.5	31	3.5	195	150
PW- 22	22	46	2.5	28	4.5	170	135
PW- 27	27	48	2.5	25	5.0	160	115
PW- 33	33	48	2.5	23	5.5	150	105
PW- 39	39	48	2.5	22	7.0	140	100
PW- 47	47	50	2.5	21	7.5	135	95
PW- 56	56	52	2.5	19	8.0	130	90
PW- 68	68	55	2.5	18	9.0	120	83
PW- 82	82	55	2.5	16	14	95	65
PW- 100	100	55	2.5	14	16	90	70
PW- 120	120	34	.79	9.5	10	115	40
PW- 150	150	34	.79	8.8	12	105	35
PW- 180	180	34	.79	8.1	15	90	32
PW- 220	220	36	.79	7.8	20	80	30
PW- 270	270	36	.79	7.3	23	75	27
PW- 330	330	36	.79	6.8	26	70	25
PW- 390	390	36	.79	6.0	35	65	23
PW- 470	470	38	.79	5.8	37	60	21
PW- 560	560	40	.79	5.0	40	58	20
PW- 680	680	40	.79	4.3	48	54	18
PW- 820	820	40	.79	3.8	54	47	17
PW-1000	1000	40	.79	3.5	65	43	15

NEW Pee Dee Ductor Series

The Pee Dee Ductor is a new, microminiature, axial-leaded RF inductor for hybrid circuit applications. It is significantly smaller than any unshielded inductor available anywhere. Designed to meet the requirements of MIL-C-15305D Grade and Class 8, this reliable, high performance inductor has a standard inductance tolerance of ±10%. Values below 0.1 uh and above 1000 uh are available on special order.

Marking: EIA color banded



ELECTRICAL DATA

PART NO PD–	L UH	Q (MIN)	TEST FREQ MHZ	F°MIN MHZ	DCR MAX OHMS ÷ 25°C	RATED CURRENT MA
0.10	0.10	42	25	500	0.2	600
0.12	0.12	42	25	450	0.2	600
0.15	0.15	42	25	400	0.25	575
0.18	0.18	45	25	380	0.25	575
0.22	0.22	45	25	360	0.30	565
0.27	0.27	50	25	300	0.30	565
0.33	0.33	45	25	280	0.35	560
0.39	0.39	50	25	260	0.37	550
0.47	0.47	50	25	250	0.39	535
0.56	0.56	50	25	240	0.40	525
0.68	0.68	50	25	220	0.45	500
0.82	0.82	50	25	180	0.50	480
1.0	1.0	50	25	170	0.60	450
1.2	1.2	42	7.9	150	0.70	425
1.5	1.5	45	7.9	130	0.80	400
1.8	1.8	45	7.9	120	0.90	350
2.2	2.2	45	7.9	110	1.3	320
2.7	2.7	45	7.9	105	1.8	275
3.3	3.3	35	7.9	100	1.1	340
3.9	3.9	35	7.9	90	1.4	310
4.7	4.7	35	7.9	85	1.6	290
5.6	5.6	35	7.9	70	1.8	275
6.8	6.8	40	7.9	65	2.0	250
8.2	8.2	40	7.9	62	2.2	245
10	10	45	7.9	60	3.0	210
12	12	45	2.5	35	2.0	250
15	15	45	2.5	30	2.2	245
18	18	45	2.5	25	2.5	230
22	22	45	2.5	23	2.7	220
27	27	50	2.5	21	3.8	195
33	33	50	2.5	20	4.5	170
39	39	50	2.5	16	6.0	150
47	47	50	2.5	14	6.5	145
56	56	50	2.5	12	7.8	135
68	68	55	2.5	10	8.6	130
82	82	50	2.5	9.0	9.8	120
100	100	55	2.5	8.0	11.5	110
120	120	28	79	7.0	25.0	90
150	150	28	79	6.0	16.5	88
180	180	25	79	5.5	22	75
220	220	24	79	5.2	31	62
270	270	24	79	5.0	38	56
330	330	24	79	4.8	42	53
390	390	24	79	3.6	58	47
470	470	24	79	3.4	60	45
560	560	24	79	3.2	65	43
680	680	22	79	3.0	90	38
820	820	23	79	2.5	95	34
1000	1000	21	79	2.0	130	30

Nytronics Components Group Inc.
ORANGE STREET, DARLINGTON, S. C. 29532
(803) 393-5421 • TWX 810-665-2182

Inductors

NEW

—MS INDUCTOR SERIES
75083, 75084, 75085
MOLDED INDUCTOR/0.100 uh to 1000 uh

The MS Inductor Series are RF Inductors specifically designed to meet the demanding requirements of MIL-C-15305D Grade 1, Class B. This MS Series is Epoxy Molded enveloped features reliability and uniformity in a Subminiature Inductor.

Nytronics Catalog No.	±10% Inductance uh	Q Min.	Test Frequency (L & Q) MHz	Self-resonant Frequency, Min. MHz	DC Resistance Max. at 25°C Ohms	Rated DC Current MA
MS75083-01	.10	40	25.0	680	.08	1350
MS75083-02	.12	40	25.0	640	.09	1270
MS75083-03	.15	38	25.0	600	.10	1200
MS75083-04	.18	35	25.0	550	.12	1105
MS75083-05	.22	33	25.0	510	.14	1025
MS75083-06	.27	33	25.0	430	.16	960
MS75083-07	.33	30	25.0	410	.22	815
MS75083-08	.39	30	25.0	365	.30	700
MS75083-09	.47	30	25.0	330	.35	650
MS75083-10	.56	30	25.0	300	.50	545
MS75083-11	.68	28	25.0	275	.60	495
MS75083-12	.82	28	25.0	250	.85	415
MS75083-13	1.00	25	25.0	230	1.00	385
MS75084-01	1.2	25	7.9	150	.18	590
MS75084-02	1.5	28	7.9	140	.22	535
MS75084-03	1.8	30	7.9	125	.30	455
MS75084-04	2.2	30	7.9	115	.40	395
MS75084-05	2.7	37	7.9	100	.55	355
MS75084-06	3.3	45	7.9	90	.85	270
MS75084-07	3.9	45	7.9	80	1.00	250
MS75084-08	4.7	45	7.9	75	1.20	230
MS75084-09	5.6	50	7.9	65	1.80	185
MS75084-10	6.8	50	7.9	60	2.00	175
MS75084-11	8.2	55	7.9	55	2.70	155
MS75084-12	10	55	7.9	50	3.70	130
MS75084-13	12	45	2.5	40	2.70	155
MS75084-14	15	40	2.5	35	2.80	150
MS75084-15	18	50	2.5	30	3.10	145
MS75084-16	22	50	2.5	25	3.30	140
MS75084-17	27	50	2.5	20	3.50	135
MS75085-01	33	45	2.5	24	3.4	130
MS75085-02	39	45	2.5	22	3.6	125
MS75085-03	47	45	2.5	20	4.5	110
MS75085-04	56	45	2.5	18	5.7	100
MS75085-05	68	50	2.5	15	6.7	92
MS75085-06	82	50	2.5	14	7.3	88
MS75085-07	100	50	2.5	13	8	84
MS75085-08	120	30	.79	12	13	66
MS75085-09	150	30	.79	11	15	61
MS75085-10	180	30	.79	10	17	57
MS75085-11	220	30	.79	9	21	52
MS75085-12	270	30	.79	8	25	47
MS75085-13	330	30	.79	7	28	45
MS75085-14	390	30	.79	6.5	35	40
MS75085-15	470	30	.79	6	42	36
MS75085-16	560	30	.79	5	46	35
MS75085-17	680	30	.79	4	60	30
MS75085-18	820	30	.79	3.8	65	29
MS75085-19	1000	30	.79	3.4	72	28

659

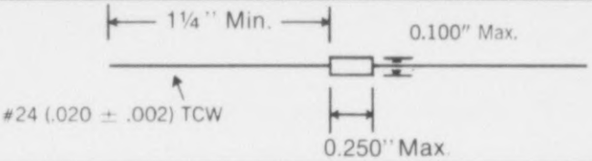
Nytronics Components Group Inc.
ORANGE STREET, DARLINGTON, S. C. 29532
(803) 393-5421 • TWX 810-665-2182

Inductors

DECI-DUCTOR

New Subminiature Inductor 0.10uH to 1000uH Range
0.100" diameter by 0.250" length 49 STANDARD VALUES

The **DECI-DUCTOR** offers the design engineer epoxy-molded reliability and uniformity in a subminiature R.F. Inductor. This smallest of Nytronics growing R.F. Inductor line is designed to meet all the environmental specifications of MIL-C-15305D, Grade 1, Class B.



ELECTRICAL CHARACTERISTICS

Inductance Tolerance: ±10% over entire range.
Dielectric Strength: 700 volts RMS at sea level.
Self-Resonant Frequency: Measured per MIL-C-15305D.
Rating: Maximum Current based on 35°C rise in 90°C ambient.

DENSITY CHARACTERISTICS

Volume: 0.002 cubic inches **Weight:** 0.35 grams

	Nytronics Catalog No.	L uH	Q Min.	MC	Min. Fo MC	Max. DCR at 25°C Ohms	Max I. mA
PHENOLIC	DD-0.10	0.10	40	25	690	0.07	2000
	DD-0.12	0.12	40	25	650	0.08	1900
	DD-0.15	0.15	38	25	600	0.09	1750
	DD-0.18	0.18	38	25	550	0.10	1600
	DD-0.22	0.22	35	25	510	0.11	1550
	DD-0.27	0.27	35	25	470	0.15	1350
	DD-0.33	0.33	32	25	410	0.21	1150
	DD-0.39	0.39	32	25	370	0.29	970
	DD-0.47	0.47	32	25	340	0.35	820
	DD-0.56	0.56	32	25	310	0.48	700
	DD-0.68	0.68	33	25	280	0.65	600
	DD-0.82	0.82	30	25	255	0.82	500
	DD-1.00	1.00	30	25	240	1.10	475
IRON	DD-1.20	1.20	30	7.9	155	0.16	1200
	DD-1.50	1.50	32	7.9	140	0.20	1100
	DD-1.80	1.80	35	7.9	130	0.32	900
	DD-2.20	2.20	35	7.9	120	0.37	760
	DD-2.70	2.70	37	7.9	105	0.49	700
	DD-3.30	3.30	45	7.9	95	0.67	575
	DD-3.90	3.90	45	7.9	87	0.95	500
	DD-4.70	4.70	45	7.9	80	1.10	475
	DD-5.60	5.60	52	7.9	75	1.60	380
	DD-6.80	6.80	52	7.9	65	1.80	350
	DD-8.20	8.20	60	7.9	62	2.40	300
	DD-10.0	10.0	60	7.9	52	3.40	265

PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS

Operating Temperature: —55°C to +125°C

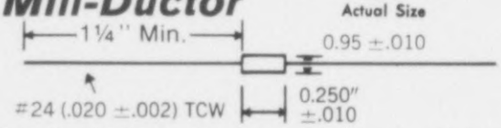
Terminal Strength: Meets three pound pull test; five 360° rotations in alternate directions per MIL-C-15305D.

Moisture, Vibration, and Shock Resistance: Meets requirements of MIL-C-15305D, 10 cps to 2000 cps @ 15G ±10% maximum for 12 logarithmic swings each of 20 minute duration repeated for each of three mutually perpendicular planes. Shock: 50G, 11 MS. (body mounted)
Marking: Color coded per MIL-C-15305D.

	Nytronics Catalog No.	L uH	Q Min.	MC	Min. Fo MC	Max. DCR at 25°C Ohms	Max I. mA
IRON	DD-12.0	12.0	45	2.5	42	2.40	300
	DD-15.0	15.0	47	2.5	36	2.70	275
	DD-18.0	18.0	50	2.5	32	3.00	260
	DD-22.0	22.0	50	2.5	28	3.30	250
	DD-27.0	27.0	50	2.5	25	3.80	240
FERRITE	DD-33.0	33.0	50	2.5	30	3.80	260
	DD-39.0	39.0	50	2.5	26	4.10	240
	DD-47.0	47.0	50	2.5	24	4.40	210
	DD-56.0	56.0	50	2.5	22	5.70	205
	DD-68.0	68.0	52	2.5	19	6.50	180
	DD-82.0	82.0	52	2.5	17	7.30	175
	DD-100	100	50	2.5	15	8.20	165
	DD-120	120	28	0.79	14	14	110
	DD-150	150	28	0.79	13	16	105
	DD-180	180	28	0.79	12	18	100
	DD-220	220	26	0.79	11	25	90
	DD-270	270	26	0.79	10	33	75
	DD-330	330	26	0.79	9.0	37	70
	DD-390	390	25	0.79	8.0	51	60
	DD-470	470	27	0.79	7.0	56	58
	DD-560	560	27	0.79	6.5	61	55
	DD-680	680	28	0.79	6.0	70	50
	DD-820	820	28	0.79	5.5	91	45
	DD-1000	1000	28	0.79	5.2	102	40

Mili-Ductor

Actual Size



The MILI-DUCTOR offers the design engineer epoxy-molded reliability and uniformity in a subminiature R.F. Inductor.
This Inductor line is designed to meet all the environmental specifications of MIL-C-15305D, Grade 1, Class B.

ELECTRICAL CHARACTERISTICS
Inductance Tolerance: ±10% over entire range.
Dielectric Strength: 1000 volts RMS at sea level.
Self-Resonant Frequency: Measured per MIL-C-15305D.
Rating: Maximum current based on: 35°C rise in 90° ambient for phenolic, 15°C rise in 90° ambient for iron, 35°C rise in 70° ambient for ferrite core inductors.

DENSITY CHARACTERISTICS
Volume: 0.002 cubic inches; **Weight** .030 grams.

PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS
Operating Temperature: —55°C to +125°C phenolic core, —55°C to +105°C iron and ferrite core.
Terminal Strength: Meets five pound pull test; five 360° rotations in alternate directions per MIL-C-15305D.
Moisture, Vibration, and Shock Resistance: Meets requirements of MIL-C-15305D, 10 cps to 2000 cps @ 15G ±10% maximum for 12 logarithmic swings each of 20 minute duration repeated for each of three mutually perpendicular planes. Shock: 50G, 11 MS (body mounted).

	Nytronics Catalog No.	L uH	Q Min.	MC	Min. Fo MC	Max. DCR at 25°C Ohms	Max I. mA
PHENOLIC	MD-0.10	0.10	40	25	680	0.08	1350
	MD-0.12	0.12	40	25	640	0.09	1270
	MD-0.15	0.15	38	25	600	0.10	1200
	MD-0.18	0.18	35	25	550	0.12	1105
	MD-0.22	0.22	33	25	510	0.14	1025
	MD-0.27	0.27	33	25	460	0.16	960
	MD-0.33	0.33	30	25	410	0.22	815
	MD-0.39	0.39	30	25	365	0.30	700

0.10uH to 1000uH Range
0.100" diameter by 0.250" length 49 STANDARD VALUES

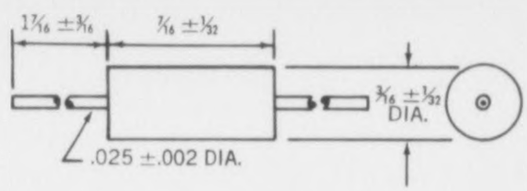
	Nytronics Catalog No.	L uH	Q Min.	MC	Min. Fo MC	Max. DCR at 25°C Ohms	Max I. mA
IRON	MD-0.47	0.47	30	25	330	0.35	650
	MD-0.56	0.56	30	25	310	0.50	545
	MD-0.68	0.68	28	25	280	0.60	495
	MD-0.82	0.82	28	25	260	0.85	415
	MD-1.00	1.00	25	25	240	1.10	385
	MD-1.20	1.20	30	7.9	150	0.18	860
	MD-1.50	1.50	30	7.9	140	0.22	775
	MD-1.80	1.80	30	7.9	125	0.30	685
	MD-2.20	2.20	30	7.9	115	0.40	585
	MD-2.70	2.70	40	7.9	100	0.50	485
	MD-3.30	3.30	45	7.9	90	0.85	400
	MD-3.90	3.90	45	7.9	80	1.0	350
	MD-4.70	4.70	45	7.9	75	1.2	325
	MD-5.60	5.60	50	7.9	65	1.5	290
	MD-6.80	6.80	50	7.9	60	1.8	265
	MD-8.20	8.20	55	7.9	55	2.4	220
	MD-10.0	10.0	55	7.9	50	3.1	200
	MD-12.0	12.0	45	2.5	40	3.4	200
	MD-15.0	15.0	40	2.5	35	2.75	215
	MD-18.0	18.0	50	2.5	30	3.0	210
	MD-22.0	22.0	50	2.5	25	3.3	200
	MD-27.0	27.0	50	2.5	20	3.6	190
FERRITE	MD-33.0	33.0	45	2.5	24	3.4	193
	MD-39.0	39.0	45	2.5	22	3.6	185
	MD-47.0	47.0	45	2.5	20	4.5	167
	MD-56.0	56.0	45	2.5	18	5.7	150
	MD-68.0	68.0	50	2.5	15	6.7	137
	MD-82.0	82.0	50	2.5	14	7.3	132
	MD-100	100	50	2.5	13	8.0	125
	MD-120	120	30	0.79	12	13	100
	MD-150	150	30	0.79	11	15	90
	MD-180	180	30	0.79	10	17	84
	MD-220	220	30	0.79	9	21	76
	MD-270	270	30	0.79	8	25	70
	MD-330	330	30	0.79	7	28	65
	MD-390	390	30	0.79	6.5	35	60
	MD-470	470	30	0.79	6	42	53
	MD-560	560	30	0.79	5	46	51
	MD-680	680	30	0.79	4	60	45
	MD-820	820	30	0.79	3.8	65	43
	MD-1000	1000	30	0.79	3.4	72	40

660

Nytronics Components Group Inc.
ORANGE STREET, DARLINGTON, S. C. 29532
(803) 393-5421 • TWX 810-665-2182

Inductors

MS-INDUCTOR SERIES
75008-75101
MOLDED INDUCTOR
(Manufactured per MS75008 - MS75101)



ALL DIMENSIONS IN INCHES

Proven reliability molded inductors designed to meet MS75008 and MIL-C-15305D.
Inductance 0.15 to 27.0 uhy

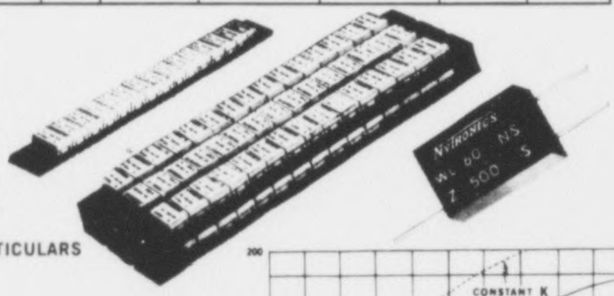
ELECTRICAL CHARACTERISTICS
Inductance Tolerance: 0.15 to 0.47 uhy ±20%; 0.56 to 27.0 uhy ±10%
Dielectric Strength: 700 Volts RMS at sea level
Max. Temp. Rise: 35°C

PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS
Operating Temperature: —55°C to +125°C.
Terminal Strength: Meets five pound pull test per MIL-C-15305D.
Moisture, Vibration, and Shock Resistance: Meets requirements of MIL-C-15305D, Grade 1, Class B. High frequency 10 cps to 2000 cps @ 15G ±10% maximum for 12 logarithmic swings, each of 20 minute duration repeated for each of three mutually perpendicular planes. (body mounted)
Volume: S Type — 0.012 cu. in.
Weight: S Type — 0.90 grams
Marking: Color banded per MIL-C-1530D.

Nytronics Catalog No.	Type Designation	Former Type Designation	Former MS Part No.	Inductance	Q; Min.	Test Frequency	Self-resonant Frequency, Min.	DC Resistance, Max.	Rated DC Current	Material
				uh		Mc	Mc	Ohms	ma	
75008-21	LT4K027	LT7K125	MS16224-1 and MS75008-1	0.15 ±20%	55	25.0	510	0.030	3,000	PHENOLIC
75008-22	LT4K028	LT7K126	MS16224-2 and MS75008-2	0.22 ±20%	50	25.0	415	0.035	2,800	
75008-23	LT4K029	LT7K127	MS16224-3 and MS75008-3	0.33 ±20%	50	25.0	350	0.065	2,000	
75008-24	LT4K030	LT7K128	MS16224-4 and MS75008-4	0.47 ±20%	50	25.0	300	0.085	1,700	
75008-25	LT4K031	—	—	0.56 ±10%	50	25.0	270	0.125	1,450	
75008-26	LT4K032	LT7K129	MS16224-5 and MS75008-5	0.68 ±10%	45	25.0	250	0.150	1,300	
75008-27	LT4K033	—	—	0.82 ±10%	40	25.0	210	0.205	1,100	
75008-28	LT4K034	LT7K130	MS16224-6 and MS75008-6	1.00 ±10%	40	25.0	200	0.290	930	
75008-29	LT4K035	—	—	1.20 ±10%	30	7.9	180	0.400	785	
75008-30	LT4K036	LT7K131	MS16224-7 and MS75008-7	1.50 ±10%	30	7.9	170	0.485	700	
75008-31	LT4K037	—	—	1.80 ±10%	30	7.9	150	0.740	580	
75008-32	LT4K038	LT7K132	MS16224-8 and MS75008-8	2.20 ±10%	30	7.9	140	0.970	505	
75008-33	LT4K039	LT7K133	MS16224-9 and MS75008-9	2.70 ±10%	30	7.9	120	1.20	460	IRON
MS75101-1	LT10K167	LT4K040	MS75008-34 and -10	3.30 ±10%	30	7.9	70	0.140	1,350	
MS75101-2	LT10K170	LT4K041	MS75008-35 and -11	3.90 ±10%	30	7.9	65	0.155	1,250	
MS75101-3	LT10K171	LT4K042	MS75008-36 and -12	4.70 ±10%	30	7.9	60	0.210	1,100	
MS75101-4	LT10K172	LT4K043	MS75008-37 and -13	5.60 ±10%	30	7.9	50	0.280	935	
MS75101-5	LT10K173	LT4K044	MS75008-38 and -14	6.80 ±10%	30	7.9	50	0.375	810	
MS75101-6	LT10K174	LT4K045	MS75008-39 and -15	8.20 ±10%	30	7.9	48	0.440	750	
MS75101-7	LT10K175	LT4K046	MS75008-40 and -16	10.00 ±10%	30	7.9	42	0.605	640	
MS75101-8	LT10K176	LT4K047	MS75008-41 and -17	12.00 ±10%	50	2.5	36	1.05	490	
MS75101-9	LT10K177	LT4K048	MS75008-42 and -18	15.00 ±10%	55	2.5	30	1.20	460	
MS75101-10	LT10K178	LT4K049	MS75008-43 and —	18.00 ±10%	60	2.5	30	1.95	360	
MS75101-11	LT10K179	LT4K050	MS75008-44 and -19	22.00 ±10%	60	2.5	24	2.20	335	
MS75101-12	LT10K180	LT4K051	MS75008-45 and -20	27.00 ±10%	65	2.5	22	2.75	300	

The Wee-Bit
(Nytronics Delay Line Sections)

Unique sectional construction available utilizing individual pre-designed Wee-Bit Pulse Delay elements.
48 hour delivery not 8 weeks.
No tooling expenses.



The **WEE-BIT** offers the advantage of assembling a unique sectionalized delay line that reduces delivery on prototype delay lines from weeks to days and eliminates expensive tooling and design efforts. Consisting of pre-designed LC sections called Wee-Bits, a discrete value of delay time is offered. The aggregate number of Wee-Bits determines the total delay time and is a function of delay to rise time ratio. An assembly is made of selected Wee-Bits mounted on printed circuit boards that conform to MIL-P-13949B, stacked or single layer and permits increment of delay to be tapped without disturbing uniform pulse shape. Wee-Bit size 0.401" long by 0.625" wide by 0.230" height and are epoxy molded to meet environmental conditions of MIL-C-15305D. Temperature range —55°C to 125°C. 300 VDC working voltage. Delay time available per Wee-Bit from 10 nanoseconds to 100 nanoseconds in 10 nanoseconds increments. Wee-Bits also stocked with 200 nanoseconds delay. This unique wee line sectionalized delay line concept allows reduction of approximately 40% in number of sections ordinarily required*, flexibility of design, and line tapping.

*Compared to constant K

LEADING ELECTRICAL PARTICULARS

Delay Tolerance:	±5%
Risetime Tolerance:	±20%
Noise:	1 to 10%, less than 3% for most types
Ripple:	1 to 10%, less than 3% for most types
Attenuation:	0.2 db/usec. to 1.0 db/usec. most types 0.2 db/usec.
Temp. Coefe.:	150 $(10)^6$ us/us - °C
Impedance:	500 ohms ±5%
Operating Voltage:	300 Volts D.C.

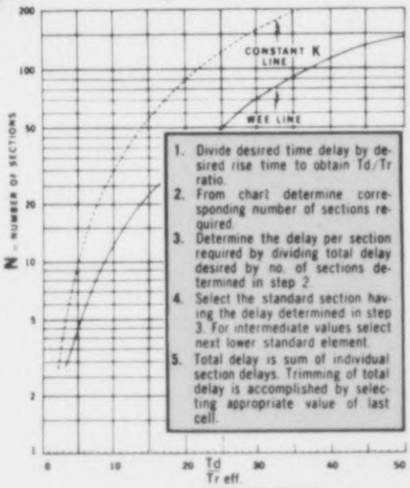
Tr MEASURED AT 10% & 90% and Td MEASURED AT 50% POINTS OF INPUT AND OUTPUT PULSES. Individual Sections furnished in ±5% Tolerance (or ±1NS, whichever is greater) and must be tested in accordance with Nytronics, Inc. DSI 394.

LEADING MECHANICAL PARTICULARS
(for 15 section delay line)

Length of 15 cells	6.125"
Length of 15 cells plus P.C. mounting board	7.141"
Width of cells plus P.C. mounting board	0.750"
Height of cells plus P.C. mounting board	0.330"

Basic cell size: Length — 0.401"
Width — 0.625"
Height — 0.230"

Temperature range and operating environmental conditions are covered by MIL-C-15305D.



1. Divide desired time delay by desired rise time to obtain Td/Tr ratio.
2. From chart determine corresponding number of sections required.
3. Determine the delay per section required by dividing total delay desired by no. of sections determined in step 2.
4. Select the standard section having the delay determined in step 3. For intermediate values select next lower standard element.
5. Total delay is sum of individual section delays. Trimming of total delay is accomplished by selecting appropriate value of last cell.

$Tr\ eff. = \sqrt{Tr^2_{OUT} - Tr^2_{IN}}$
if $Tr\ OUT \geq 10x\ Tr\ IN$, $Tr\ eff. = Tr\ OUT$

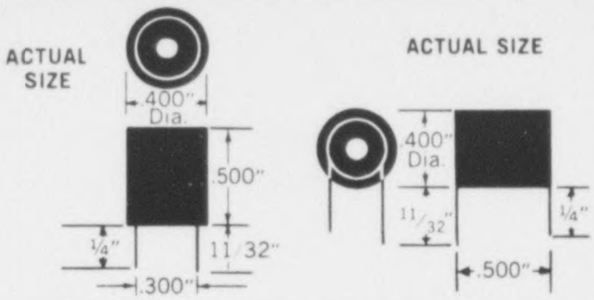
661

Nytronics Components Group Inc.
ORANGE STREET, DARLINGTON, S. C. 29532
(803) 393 5421 • TWX 810-665-2182

VARIABLE INDUCTORS

VIV-VIH

Miniature with inductance range of 0.10 to 4700uH in 29 values.
Encapsulated in epoxy resin for reliability.
Designed to meet MIL-C-15305D.



Terminal Leads #22 (.025 ± .002) VCW

VERTICAL STYLE HORIZONTAL STYLE

The **VARIABLE INDUCTOR** offers high reliability and exceptional stability over extreme temperature variations. This small lightweight unit is furnished in vertical and horizontal styles to facilitate mounting on printed circuit boards. The unit is designed to meet the requirements of MIL-C-15305D, Grade 1, Class B.

ELECTRICAL CHARACTERISTICS

Inductance Range: 0.33 to 4700uH Tunable Range ±20%
0.15 to 0.22uH Tunable Range ±15%
0.1 Tunable Range ±10%
All measurements at 25°C on Q-Meter using miniature alligator clips mounted 1/32" from body.
Q values ±20%

Self-Resonant Frequency: Minimum f_o to be not less than 80% of published data as measured with Grid-Dip Meter

DENSITY CHARACTERISTICS

Volume: 0.063 cubic inches
Weight: 2.6 grams

PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS

Torque: 0.75 to 5.0 inch-ounces
Use Nytronics Tuning Tool No. B-305 or equal.

Operating Temperature: −55°C to +125°C

Terminal Strength: Meets five pound pull tests.

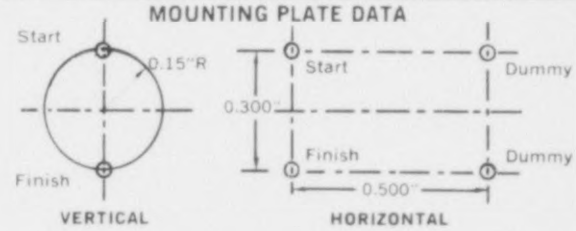
Moisture, Vibration, and Shock Resistance: Meets requirements of MIL-C-15305D, Grade 1, Class B. Low frequency 10 cps to 55 cps @ .06" total excursion at rate of 1 linear sweep per minute for 2 hours repeated for each of 3 mutually perpendicular planes. Shock: 50G, 11ms.

Core Material: Iron

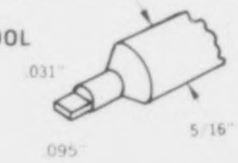
Marking: Manufacturer data printed.

NYTRONICS PART NO.		L nom	Q at L nom		Approx. Fo, L nom	max DCR at 25°C
VIV	VIH	µH		MC	MC	Ω
VIV- 0.10	VIH- 0.10	0.10	85	25.	>500.	0.02
VIV- 0.15	VIH- 0.15	0.15	100	25.	>500.	0.035
VIV- 0.22	VIH- 0.22	0.22	100	25.	>500.	0.04
VIV- 0.33	VIH- 0.33	0.33	100	25.	334.	0.04
VIV- 0.47	VIH- 0.47	0.47	100	25.	285.	0.05
VIV- 0.68	VIH- 0.68	0.68	100	25.	237.	0.07
VIV- 1.00	VIH- 1.00	1.00	90	25.	205.	0.13
VIV- 1.50	VIH- 1.50	1.50	70	7.9	168.	0.24
VIV- 2.20	VIH- 2.20	2.20	73	7.9	135.	0.30
VIV- 3.30	VIH- 3.30	3.30	80	7.9	112.	0.45
VIV- 4.70	VIH- 4.70	4.70	75	7.9	100.0	0.80
VIV- 6.80	VIH- 6.80	6.80	80	7.9	80.0	1.1
VIV- 10.0	VIH- 10.0	10.0	82	7.9	67.0	1.9
VIV- 15.0	VIH- 15.0	15.0	65	2.5	54.2	3.2
VIV- 22.0	VIH- 22.0	22.0	55	2.5	17.5	3.4
VIV- 33.0	VIH- 33.0	33.0	54	2.5	15.0	3.6
VIV- 47.0	VIH- 47.0	47.0	51	2.5	13.2	4.5
VIV- 68.0	VIH- 68.0	68.0	55	2.5	12.0	5.5
VIV- 100	VIH- 100	100.0	50	2.5	10.5	6.7
VIV- 150	VIH- 150	150.	50	.79	3.0	11.0
VIV- 220	VIH- 220	220.	50	.79	2.70	13.0
VIV- 330	VIH- 330	330.	48	.79	2.24	16.0
VIV- 470	VIH- 470	470.	45	.79	1.90	18.0
VIV- 680	VIH- 680	680.	42	.79	1.70	21.0
VIV-1000	VIH-1000	1000.	40	.79	1.40	38.0
VIV-1500	VIH-1500	1500.	40	.25	1.14	54.0
VIV-2200	VIH-2200	2200.	44	.25	0.96	66.0
VIV-3300	VIH-3300	3300.	46	.25	0.86	85.0
VIV-4700	VIH-4700	4700.	48	.25	0.76	99.0

MOUNTING PLATE DATA



TYPICAL ALIGNING TOOL
B-305



Nytronics Components Group Inc.

ORANGE STREET, DARLINGTON, S. C. 29532
(803) 393-5421 • TWX 810-665-2182

Inductors

The Wee-Chip Inductor

Designed for Micro Circuit and Hybrid Applications


(ACTUAL SIZE)

The Wee-Chip Inductor is a magnetically shielded miniaturized inductor made especially for mounting on substrates. The inductor body is of high stability, low loss ferrite, combined with a coil cavity of optimum cross sectional area, and mean radius produces a unit having excellent "Q" factor. Copper terminations are of the wrap-around type for the highest degree of mounting flexibility.

ELECTRICAL CHARACTERISTICS

Inductance Tolerance: ±10% Over Entire Range Standard

Dielectric Strength: 500 VRMS

DENSITY CHARACTERISTICS

Volume: 0.0055 Cubic Inches

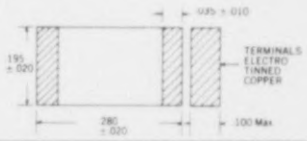
Weight: 0.35 Grams Max.

MARKING: Manufacturer data printed

Part No.	L UH ±10%	Q (Min.)	Test Freq. MHz	SRF (Min.) MHz	DCR (Max.) Ohms	Current (Max.) MA
WCI- 15	15	70	2.5	21.5	1.75	345
WCI- 18	18	70	2.5	19.0	1.90	335
WCI- 22	22	75	2.5	17.5	2.20	325
WCI- 27	27	75	2.5	16.0	2.40	310
WCI- 33	33	75	2.5	15.0	2.60	300
WCI- 39	39	75	2.5	14.5	2.75	295
WCI- 47	47	75	2.5	13.0	2.95	285
WCI- 56	56	75	2.5	12.0	3.25	270
WCI- 68	68	75	2.5	11.0	3.50	255
WCI- 82	82	75	2.5	10.5	4.00	235
WCI- 100	100	70	2.5	9.0	4.25	225
WCI- 120	120	70	0.79	8.5	4.50	215
WCI- 150	150	70	0.79	7.0	5.50	200
WCI- 180	180	75	0.79	6.5	6.50	190
WCI- 220	220	75	0.79	6.0	8.00	170
WCI- 270	270	75	0.79	5.5	12.0	140
WCI- 330	330	75	0.79	5.0	13.0	130
WCI- 390	390	75	0.79	4.5	14.0	120
WCI- 470	470	75	0.79	4.0	15.0	115
WCI- 560	560	75	0.79	3.5	22.0	100
WCI- 680	680	70	0.79	3.0	24.0	95
WCI- 820	820	70	0.79	2.5	26.0	90
WCI-1000	1000	70	0.79	2.0	36.0	75

NOTES:

1. Shielding: 2% max. coupling when two units are tested side by side
2. Designed to meet the requirements of MIL-C-15305 grade 2 class B
3. Stability: temp. coefficient of inductance ranges from 100 to 500 PPM/°C depending on inductance
4. Current Ratings: Based on a 35°C temperature rise from an ambient temp of 90°C
5. L, Q & SRF measurements made using Boonton 260-A Q-meter
6. Other inductance values and tolerances available on special order



Pee-Cee Ductor

Subminiature, Shielded Radial Lead Inductor:

High Q Values: 0.10 to 100,000uH

Unitized Epoxy-Molded Construction


(ACTUAL SIZE)

This inductor is designed to meet MIL-C-15305D, Grade 1, Class B. Printed board mounting is facilitated by 0.200 grid spacing and unit has shielded construction to allow maximum density packaging. Standardized in 73 stock values.

ELECTRICAL CHARACTERISTICS

L (Tol.): ±10% over entire range as measured per MIL-C-15305D,

Q and f. Values: Minimum not less than 80% of specified value.

Dielectric Strength: 840 Volts R.M.S. at sea level.

Working Voltage: 300 Volts D.C.

Maximum Current: Based on temperature rise not to exceed 35°C at 90°C ambient.

Incremental Current: Defined as the DC current required to cause a five percent reduction in the nominal inductance value.

DENSITY CHARACTERISTICS

Weight: 1.0 grams maximum

Volume: .015 cubic inches

Shielding: 3% coupling maximum when two units are tested side by side.

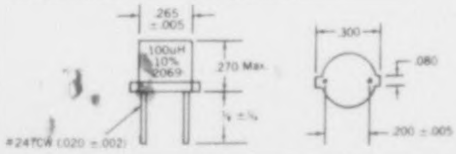
PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS

Operating Temperature: —55°C to +125°C.

Moisture, Vibration, and Shock Resistance: Meet requirements of MIL-C-15305D, Grade 1, Class B. Low frequency 10 to 55 cps @ .06" maximum total excursion at rate of 1 linear sweep per minute for 2 hours repeated for each of three mutually perpendicular planes. Shock: 50G, 11 MS. (body mounted)

Marking: Manufacturer data printed.

Terminal Pull: Three pounds.



Nytronics Catalog No.	L nom. uH	f MC	Q nom.	Fo nom. MC	D.C.R. 25°C Max. ohms	Max. I m.a.	Incr. I m.a.
PC- 0.10	.10	25	70	>250	0.030	2500	2500
PC- 0.12	.12	25	70	>250	0.030	2500	2500
PC- 0.15	.15	25	70	>250	0.030	2500	2500
PC- 0.18	.18	25	70	>250	0.035	2400	2400
PC- 0.22	.22	25	70	>250	0.038	2300	2300
PC- 0.27	.27	25	80	>250	0.040	2200	2200
PC- 0.33	.33	25	80	>250	0.040	2200	2200
PC- 0.39	.39	25	80	250	0.045	2100	2100
PC- 0.47	.47	25	80	230	0.045	2100	2100
PC- 0.56	.56	25	80	220	0.050	2000	2000
PC- 0.68	.68	25	80	190	0.055	1900	1900
PC- 0.82	.82	25	85	180	0.060	1800	1800
PC- 1.00	1.00	25	85	160	0.070	1700	1700
PC- 1.2	1.2	7.9	90	170	0.085	1670	1670
PC- 1.5	1.5	7.9	100	155	0.100	1540	1540
PC- 1.8	1.8	7.9	115	135	0.110	1470	1470
PC- 2.2	2.2	7.9	110	120	0.120	1410	1410
PC- 2.7	2.7	7.9	110	104	0.125	1380	1380
PC- 3.3	3.3	7.9	90	93.0	0.165	1200	1200
PC- 3.9	3.9	7.9	90	87.0	0.180	1135	1135
PC- 4.7	4.7	7.9	95	79.0	0.245	985	985
PC- 5.6	5.6	7.9	95	72.0	0.265	950	950
PC- 6.8	6.8	7.9	85	63.0	0.330	853	853
PC- 8.2	8.2	7.9	95	60.0	0.460	720	720
PC- 10	10	7.9	90	54.0	0.640	620	620
PC- 12	12	2.5	120	37.0	0.800	545	545
PC- 15	15	2.5	120	28.8	0.865	520	520
PC- 18	18	2.5	115	23.8	0.940	504	504
PC- 22	22	2.5	125	21.3	1.03	460	460
PC- 27	27	2.5	115	20.6	1.18	418	418
PC- 33	33	2.5	120	18.6	1.30	398	398
PC- 39	39	2.5	120	17.7	1.41	385	385
PC- 47	47	2.5	110	14.9	1.61	350	350
PC- 56	56	2.5	115	13.9	2.08	330	330
PC- 68	68	2.5	105	12.9	2.20	320	320
PC- 82	82	2.5	105	11.7	2.42	300	300
PC- 100	100	2.5	95	10.5	2.15	333	333
PC- 120	120	0.790	95	5.60	2.38	316	190
PC- 150	150	0.790	90	5.20	2.52	306	175
PC- 180	180	0.790	95	4.90	2.88	288	150
PC- 220	220	0.790	95	4.60	3.18	273	125
PC- 270	270	0.790	100	4.20	3.50	260	120
PC- 330	330	0.790	100	3.55	4.80	222	110
PC- 390	390	0.790	100	3.45	5.44	209	105
PC- 470	470	0.790	100	3.20	5.90	201	100
PC- 560	560	0.790	95	2.90	6.30	194	90
PC- 680	680	0.790	100	2.70	7.20	181	80
PC- 820	820	0.790	90	2.50	8.00	172	70
PC- 1,000	1,000	0.790	100	2.35	12.0	141	65
PC- 1,200	1,200	0.250	95	2.20	13.5	132	60
PC- 1,500	1,500	0.250	90	1.90	16.5	119	55
PC- 1,800	1,800	0.250	100	1.80	18.0	114	47
PC- 2,200	2,200	0.250	100	1.70	20.5	107	43
PC- 2,700	2,700	0.250	95	1.50	22.5	102	39
PC- 3,300	3,300	0.250	90	1.40	42.0	76	36
PC- 3,900	3,900	0.250	85	1.27	47.5	71	35
PC- 4,700	4,700	0.250	85	1.24	53.0	67	34
PC- 5,600	5,600	0.250	85	0.93	62.5	65	31
PC- 6,800	6,800	0.250	75	0.79	69.5	58	27
PC- 8,200	8,200	0.250	80	0.75	75.0	56	26
PC- 10,000	10,000	0.250	70	0.70	100.0	49	24
PC- 12,000	12,000	0.079	70	0.50	84	60	40
PC- 15,000	15,000	0.079	70	0.38	84	52	34
PC- 18,000	18,000	0.079	70	0.36	93	50	30
PC- 22,000	22,000	0.079	70	0.32	104	45	28
PC- 27,000	27,000	0.079	70	0.30	173	35	26
PC- 33,000	33,000	0.079	70	0.27	187	32	24
PC- 39,000	39,000	0.079	70	0.26	220	30	22
PC- 47,000	47,000	0.079	70	0.25	253	28	20
PC- 56,000	56,000	0.079	70	0.24	285	26	19
PC- 68,000	68,000	0.079	60	0.20	311	24	18
PC- 82,000	82,000	0.079	60	0.19	385	22	16
PC-100,000	100,000	0.079	60	0.17	420	20	15

663

Nytronics Components Group Inc.
ORANGE STREET, DARLINGTON, S. C. 29532
(803) 393-5421 • TWX 810-665-2182

NEW

INDUSTRY'S FINEST RESISTORS

ALL STYLES AVAILABLE WITH SOLDERABLE (S) OR WELDABLE (W) TERMINALS

MIL-R-39007/B
ESTABLISHED RELIABILITY
FAILURE RATE M 1%/1000 HRS.
RESISTANCE TOLERANCE ±1%
TEMPERATURE COEFFICIENT:
±20 PPM/°C MAX. 10Ω AND HIGHER
±50 PPM/°C MAX. 1Ω TO 10Ω
±90 PPM/°C MAX. .1Ω TO 1Ω

TYPE DESIGNATIONS

MIL STYLE	DETAIL SPEC. NO.	SAGE STYLE	MIL WATTS @ 25°C	AVAILABLE RESISTANCE RANGE
RWR80S RWR80W	/8 /8	1009SM 1007SM	2	.10Ω to 2.67K
RWR81S RWR81W	/9 /9	259SM 257SM	1	.10Ω to 1.0K
RWR82S RWR82W	/12 /12	509SM 507SM	1.5	.10Ω to 1.3K
RWR89S RWR89W	/11 /11	1249SM 1247SM	3	.10Ω to 4.12K
RWR84S RWR84W	/10 /10	1509SM 1507SM	7	.10Ω to 12.4K
RWR71S RWR71W	/5 /5	1259SM 1257SM	2	.10Ω to 16.2K
RWR74S RWR74W	/6 /6	1509SP 1507SP	5	.10Ω to 12.1K
RWR78S RWR78W	/7 /7	1709SP 1707SP	10	.10Ω to 39.2K

EXAMPLE PART DESIGNATION:

RWR-74 — BODY STYLE

S — TERMINALS
S — SOLDERABLE
W — WELDABLE

49R9 — NOMINAL RES., Ω. THREE SIGNIFICANT DIGITS PLUS FOURTH INDICATING NUMBER OF ZEROES. BELOW 100Ω, R-DECIMAL AND FOLLOWING DIGITS ARE SIGNIFICANT.

F — TOLERANCE ±1%

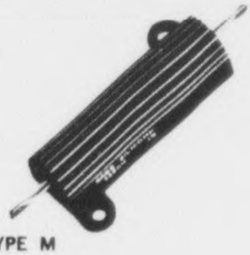
M — LIFE FAILURE RATE

.664

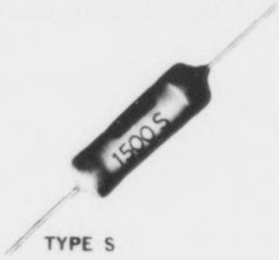
Nytronics Components Group Inc.
SAGE ELECTRONICS CORPORATION
ORANGE STREET, DARLINGTON, S. C. 29532 (803) 393-5421 • TWX 810-665-2182

SAGE/NYTRONICS RESISTORS

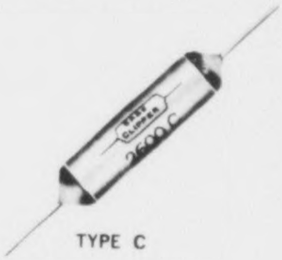
NEW



TYPE M



TYPE S



TYPE C

TYPC C CLIPPER METAL SHEATHED RESISTORS

Similar in all respects to Type S, fully insulated plus addition of metal sleeve for heat sink mounting in spring clip holders.
Full heat sink rating.

STYLE	Rating Watts
	Full heat sink rating
2200C	6
2250C	6
2550C	11
2600C	14

TYPE S, NS SILICONE COATED POWER RESISTORS

Meet or exceed MIL-R-26E requirements. N designates non-inductive.

STYLE	Rating Watts	Nominal Size Length	Nominal Size Dia	Lead Dia	Standard Range Ω Regular Winding	Standard Range Ω Non-Inductive	
100S	1	.400	.094	.020	8400	3000	MINIATURE SERIES
200S	2	.400	.125	.020	11000	3900	
300S	3	.400	.187	.020	15000	5300	
250S	.5	.250	.085	.020	3800	1350	
500S	.8	.312	.094	.020	5000	1750	
750S	1	.531	.094	.020	12000	4200	
1000S	1	.406	.094	.020	8400	3000	
1100S	2	.500	.125	.032	15000	5500	
1200S	3	.500	.187	.032	20000	7000	REGULAR S SERIES
1240S	3	.562	.187	.032	24000	8400	
1250S	3	.812	.187	.032	40000	14000	
1300S	3	.625	.250	.040	30000	10500	
1500S	5	.875	.312	.040	71000	25000	
1550S	5	1.000	.312	.040	88000	31000	
1600S	7	1.219	.312	.040	114000	40000	
1700S	10	1.781	.375	.040	230000	80000	
1900S	10	1.375	.431	.040	210000	73000	
1950S	11	2.000	.469	.040	314000	110000	

Min. Res. Tol. Available is ±1%.

S styles only

SAGE SILICOHM® fixed wirewound units are not ordinary power resistors. They provide remarkable miniaturization vs required wattage performance. Sage has pioneered the area of power handling capacity combined with precision and stability features ordinarily associated

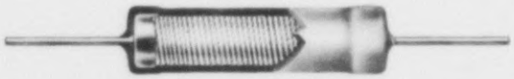
TYPE SB & NSB HIGH WATTAGE COMMERCIAL BERYLLIA CORE RESISTORS

STANDARD SOLDERABLE LEADS	RATED WATTS G	RATED WATTS V	Approx Grams WEIGHT
250SB	1	1.5	.18
500SB	1.5	2	.28
1000SB	2.25	2.75	.32
1200SB	3.5	4.5	1.0
1240SB	4	5	1.1
1250SB	4.5	6	1.2
1300SB	6	8	1.8
1500SB	7	9	3.6
1600SB	9	12	4.2
1700SB	14	18	7.3

TYPE S CONSTRUCTION

Showing ceramic core, spaced single layer winding welded to monel cap, and multiple layer Impervohm® coating.

Copperweld leads 60/40 Hot Solder Dip. Lead Length 2" ±1/16 is supplied on all sizes unless otherwise specified on purchase order.



MINIATURE TYPE S "CORDWOOD" SERIES

1, 2, 3 watt .4 inch body length

665

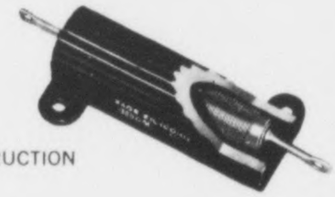
Nytronics Components Group Inc.
SAGE ELECTRONICS CORPORATION
ORANGE STREET, DARLINGTON, S. C. 29532 (803) 393-5421 • TWX 810-665-2182

SAGE/NYTRONICS RESISTORS

INDUSTRY'S FINEST RESISTORS...Commercial, Military, High Reliablity

NEW

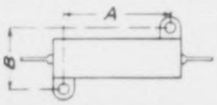
TYPE M METAL CLAD CHASSIS MOUNT RESISTORS



TYPE M CONSTRUCTION

Aluminum housed resistors for heat sink mounting. Meet or exceed requirements of MIL-R-18546D. Dielectric strength to 2500 volts rms.

All dimensions are inches nominal. Complete specifications available on request.



STYLE	Rating Watts	A	B	Max. Resistance Ω	
				Regular Winding	Non-Induct.
3105M	8	.444	.490	24,000	8,400
3010M	14	.562	.625	30,000	10,500
3225M	25	.719	.781	71,000	25,000
3550M	50	1.562	.844	230,000	80,000

TYPE MB HIGH WATTAGE

BERYLLIUM OXIDE CORES

STYLE	RATED WATTS 25°C ambient	
	chassis mounted	free air
3105 MB/NMB	15	6
3010 MB/NMB	20	8
3225 MB/NMB	35	14
3550 MB/NMB	50	20

MB suffix designates regular single layer wind, NMB non-inductive wind.

MIL-R-26E TYPE DESIGNATIONS

EXAMPLE: RW69 — V — 471

- RW69 ↑ Body Style
- V ↑ Characteristic, V only (350°C max.)
- 471 ↑ Nominal resistance, Ω. Two significant digits plus third indicating number of zeros. Below 10ΩR = decimal and last digit is significant.

TOLERANCE: ±5% for values 1Ω and up; ±10% below 1Ω.
TC: ±260 ppm/°C 20Ω and up; 400 ppm/°C below 20Ω.

MIL STYLE	SAGE STYLE	MIL WATTS	DEFINED OHMIC RANGE (Single layer wound .00175 min. wire dia.)
RW55V	1900S	7	.1–5100
RW56V	1950S	14	.1–9100
RW67V	1550S	6.5	.1–3600
RW68V	1700S	11	.1–8200
RW69V	1200S	3	.1–910

EXAMPLE: RW70 — U — 49R9 — F

- RW70 ↑ Body Style
- U ↑ Characteristic, U only (275°C max.)
- 49R9 ↑ Nominal resistance, Ω. Three significant digits plus fourth indicating number of zeros. Below 10ΩR = decimal and following digits are significant.
- F ↑ Tolerance ±% B = .1% D = .5% F = 1.0%

TC: ±30 ppm/°C 10Ω and above
±50 ppm/°C 1Ω to 10Ω
±90 ppm/°C below 1Ω

MIL STYLE	SAGE STYLE	MIL WATTS	VOLTAGE Max.	DEFINED OHMIC RANGE		
				Min.	Max. for .001" wire (Navy)	Max. for .0008" wire (all other)
RW70U	1000S	1	——	.1	1210	3160
RW74U	1500S	5	300	.1	12100	38300
RW78U	1700S	10	720	.1	40200	90900
RW79U	1240S	3	135	.1	3570	10500
RW80U	1000SB	2	——	.1	1240	3160
RW81U	250SB	1	25	.1	649	——

MIL-R-18546D TYPE DESIGNATIONS

Example: RE65 — G — 1001

- RE65 ↑ Style
- G ↑ Characteristic, 275°C Max. G for regular inductive winding N for non-inductive winding
- 1001 ↑ Nominal resistance, Ω. ±1% only. Three significant digits plus fourth indicating number of zeros. Below 100Ω R = decimal and following digits are significant.

T.C. ±30 ppm/°C 2000Ω and above
±50 ppm/°C under 2000Ω

MIL STYLE	SAGE STYLE	MIL WATTS	DEFINED OHMIC RANGE	
			Min.	Max. (.001 wire)
RE60G	3105M	5	.1	3320
RE60N	3105NM	5	1.0	1650
RE65G	3010M	10	.1	5620
RE65N	3010NM	10	1.0	2800
RE70G	3225M	20	.1	12100
RE70N	3225NM	20	1.0	6040
RE75G	3550M	30	.1	39200
RE75N	3550NM	30	1.0	19600

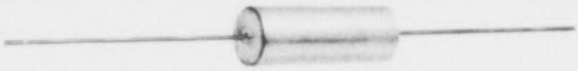
CONSIDER THESE DETAILS:

- Wattage Rating, ½ to 50 watts
- T.C. 20 ppm/°C or 10 ppm/°C
- 1000 volt rms body insulation
- Low values not available in other resistors (specials to .05Ω).
- Characteristic U or V wattage rating: to 275°C or 350°C
- Power load life stability <.5%/1000 hours
- Weldable leads when specified
- Non-inductive winding when specified

665

Nytronics Components Group Inc.

POLYESTER FILM CAPACITORS
EXTENDED FOIL/FILM WRAP/EPOXY END FILL
STYLE 107/–55°C TO +125°C



ELECTRICAL AND ENVIRONMENTAL CHARACTERISTICS

CAPACITANCE MEASUREMENTS

Capacitors of 1.0 μF or less shall be measured at a frequency of 1000 Hz. Capacitors greater than 1.0 μF shall be measured at 60 Hz. The standard capacitance tolerance is 20%. Other tolerances are available upon request.

Reference: MIL-STD-202, Method 305.

TEMPERATURE CHARACTERISTICS

The maximum change in capacitance from the measured value at +25°C shall be −6% at −55°C, and +15% at +125°C.

DISSIPATION FACTOR

When measured as specified in Paragraph 1, the dissipation factor at +25°C shall not exceed 0.6% for values up to 1.0 μF and shall not exceed 1.0% for greater capacitance values.

INSULATION RESISTANCE

When measured at +25°C, and rated voltage (or 500 VDC, whichever is less), the insulation resistance shall be a minimum of 50,000 megohm-microfarads, but need not exceed 100,000 megohms. The period of electrification shall not exceed two minutes.

Reference: MIL-STD-202, Method 302.

VOLTAGE DERATING

The capacitors may be operated at full rated voltage from −55°C to +85°C, or with linear derating to 50% of rated voltage above +85°C with a maximum temperature of +125°C.

VOLTAGE TEST

When tested at +25°C, the capacitors shall withstand the indicated DC test voltages for a period of one minute:

Terminal to terminal	200% of DC rating
Terminal to case (less than .235 diameter)	200% of DC rating
Terminal to case (greater than .235 diameter)	400% of DC rating or 2,000 VDC, whichever is less

Reference: MIL-STD-202, Method 301.

LIFE TESTING

When tested for 1000 hours at 150% of the appropriate rated voltage for the test temperature, the capacitors shall exhibit no more than one failure in twelve pieces tested. Alternatively, an accelerated +125°C test may be performed at the +85°C voltage rating for a period of 250 hours. A failure is defined as:

a) A capacitance change of more than 10% of its initial value;
b) A dissipation factor greater than that specified in Paragraph 3;
c) An insulation resistance less than ⅓ that specified in Paragraph 4; or
d) A permanent open or short.

VIBRATION

The capacitors will meet or exceed in the vibration requirements of MIL-STD-202, Method 201.

NYTRONICS CATALOG NUMBERING SYSTEM

107 B 103 M

- **107** — Nytronics Style
- **B** — D.C. Voltage Rating
  - B = 100V
  - C = 200V
  - E = 400V
  - F = 600V
- **103** — Capacitance
  In μμf. The first two digits are the significant figures, the third is the number of zeros.
- **M** — Capacitance Tolerance
  - F = ±1%
  - P = ±2%
  - J = ±5%
  - K = ±10%
  - M = ±20%

Note: Special capacitance values, voltage ratings and sizes available to customer requirements.

PHYSICAL SIZE TOLERANCES

	100 Volts DC & 200 Volts DC		400 Volts DC	
DIAMETER	Up to .158	+.032 −.000	Up to .218	±.032
	.159 to .200	+.040 −.000	.219 to .500	±.046
	Over .200	+.050 −.000	Over .500	±.062
LENGTH		+1/16 −0		+3/32 −1/16

TINNED COPPERWELD LEADS

No. 22 AWG. (.025) for cases up to .325 Dia.
No. 20 AWG. (.032) for cases .326 thru 1.0 Dia.
No. 18 AWG. (.040) for cases above 1.0 Dia.

Also available are the following styles with characteristics similar to Type 107.

STYLE 103
Flat Press with Axial Leads
Extended Foil Construction
Polyester Film Dielectric
Film Wrap-Epoxy Endfill
−55°C to +125°C Operation

STYLE 118
Round Body with Axial Leads
Extended Foil Construction
Polyester Film Dielectric
Polyethylene Case-Epoxy Endfill
−55°C to +100°C Operation

STANDARD RATINGS

Capacitance μf	Dia. x Length		Cat. No.
100 VOLTS DC WORKING			
.001	.138	3/8	107B102M
.0015	.138	3/8	107B152M
.0022	.138	3/8	107B222M
.0033	.138	3/8	107B332M
.0047	.138	3/8	107B472M
.0068	.138	3/8	107B682M
.0082	.138	3/8	107B822M
.01	.158	3/8	107B103M
.015	.158	21/32	107B153M
.022	.158	21/32	107B223M
.027	.158	21/32	107B273M
.033	.158	21/32	107B333M
.047	.190	21/32	107B473M
.068	.220	21/32	107B683M
.082	.265	21/32	107B823M
.1	.265	11/16	107B104M
.12	.300	3/4	107B124M
.15	.330	3/4	107B154M
.22	.350	15/16	107B224M
.27	.350	1 1/16	107B274M
.33	.385	1 1/16	107B334M
.39	.415	1 1/16	107B394M
.47	.450	1 1/16	107B474M
.56	.490	1 1/16	107B564M
.68	.540	1 1/16	107B684M
.82	.570	1 1/16	107B824M
1.	.590	1 3/16	107B105M
1.5	.670	1 3/16	107B155M
1.8	.730	1 3/16	107B185M
2.0	.700	1 1/2	107B205M
200 VOLTS DC WORKING			
.001	.138	3/8	107C102M
.0015	.138	3/8	107C152M
.0022	.138	3/8	107C222M
.0033	.138	3/8	107C332M
.0047	.138	3/8	107C472M
.0068	.138	3/8	107C682M
.0082	.138	3/8	107C822M
.01	.158	3/8	107C103M
.015	.158	21/32	107C153M
.022	.158	21/32	107C223M
.027	.158	21/32	107C273M
.033	.158	21/32	107C333M
.047	.190	21/32	107C473M
.068	.220	21/32	107C683M
.082	.265	21/32	107C823M
.1	.265	11/16	107C104M
.12	.285	13/16	107C124M
.15	.315	13/16	107C224M
.22	.325	1 1/16	107C224M
.27	.330	1 3/16	107C274M
.33	.360	1 3/16	107C334M
.39	.395	1 3/16	107C394M
.47	.430	1 3/16	107C474M
.56	.465	1 3/16	107C564M
.68	.510	1 3/16	107C684M
.82	.580	1 3/16	107C824M
1.	.590	1 5/16	107C105M
1.5	.680	1 7/16	107C155M
1.8	.740	1 7/16	107C185M
2.0	.750	1 9/16	107C205M
400 VOLTS DC WORKING			
.001	.156	5/8	107E102M
.0015	.156	5/8	107E152M
.0022	.156	5/8	107E222M
.0033	.156	5/8	107E332M
.0047	.187	5/8	107E472M
.0068	.218	5/8	107E682M
.0082	.234	5/8	107E822M
.01	.250	5/8	107E103M
.015	.296	5/8	107E153M
.022	.312	3/4	107E223M
.027	.281	7/8	107E273M
.033	.312	7/8	107E333M
.047	.343	7/8	107E473M
.068	.375	1	107E683M
.082	.406	1	107E823M
.1	.421	1	107E104M
.12	.468	1	107E124M
.15	.468	1 1/4	107E154M
.22	.546	1 3/8	107E224M
.27	.609	1 3/8	107E274M
.33	.593	1 5/8	107E334M
.39	.625	1 5/8	107E394M
.47	.671	1 5/8	107E474M
.56	.718	1 3/4	107E564M
.68	.796	1 3/4	107E684M
.82	.812	1 7/8	107E824M
1.	.812	2	107E105M
1.5	.921	2 1/4	107E155M
1.8	1.015	2 1/4	107E185M
2.0	1.093	2 1/4	107E205M

Special capacitance values, tolerances and sizes are available on request.

ORANGE STREET, DARLINGTON, S. C. 29532 • (803) 393-5421 • TWX 810-665-2182

667

Nytronics Components Group Inc.
ORANGE STREET, DARLINGTON, S. C. 29532
(803) 393-5421 • TWX 810-665-2182

NEW POLYSTYRENE CAPACITORS

EXTENDED FOIL
FILM WRAP/EPOXY END-FILL
STYLE 133

−55°C TO +85°C

ELECTRICAL AND ENVIRONMENTAL CHARACTERISTICS

CAPACITANCE MEASUREMENTS
Capacitors of 1.0 μF or less shall be measured at a frequency of 1000 Hz.

Capacitors greater than 1.0 μF shall be measured at 60 Hz.

The standard capacitance tolerance is 20%. Other tolerances are available upon request.

Reference: MIL-STD-202, Method 305.

TEMPERATURE CHARACTERISTICS AND STABILITY
When measured over the full operating range, the Temperature Coefficient shall be −120ppm/°C ±30ppm/°C.

There shall be less than 0.1% change per year in capacitance when operated between +20°C and +50°C.

After cycling from −55°C to +75°C, the capacitance shall not vary more than 0.2% from its initial measurement at +25°C.

DISSIPATION FACTOR
When measured as specified in Paragraph 1, the dissipation factor at +25°C shall not exceed 0.1%.

INSULATION RESISTANCE
When measured at +25°C and rated voltage (or 500 VDC, whichever is less), the insulation resistance shall be a minimum of 200,000 megohm-microfarads, but need not exceed 500,000 megohms. The period of electrification shall not exceed two minutes.

Reference: MIL-STD-202, Method 302.

VOLTAGE DERATING
The capacitors may be operated at full rated voltage from −55°C to +65°C, or with linear derating to 60% of rated voltage above +65°C to the maximum operating temperature of +85°C.

VOLTAGE TEST
When tested at +25°C, the capacitors shall withstand the indicated DC test voltages for a period of one minute:

Terminal to terminal	200% of DC rating
Terminal to case (less than .235 diameter)	200% of DC rating
Terminal to case (greater than .235 diameter)	400% of DC rating or 2,000 VDC, whichever is less

Reference: MIL-STD-202, Method 301.

LIFE TESTING
When tested at 85°C for 250 hours at full 65°C rated voltage, the capacitors shall exhibit no more than one failure in twelve pieces tested. A failure is defined as:

a) A capacitance change of more than 6% of its initial value;
b) A dissipation factor greater than that specified in Paragraph 3;
c) An insulation resistance less than 60% that specified in Paragraph 4; or
d) A permanent open or short.

VIBRATION
The capacitors will meet or exceed the vibration requirements of MIL-STD-202, Method 201.

NYTRONICS CATALOG NUMBERING SYSTEM

133 B 103 M

- 133 — Nytronics Style
- B — DC Rated Voltage
  - A = 50V
  - B = 100V
  - C = 200V
  - E = 400V
  - F = 600V
- 103 — Capacitance In μμf. The first two digits are the significant figures, the third is the number of zeroes.
- M — Capacitance Tolerance
  - F = ± 1%
  - P = ± 2%
  - J = ± 5%
  - K = ±10%
  - M = ±20%

Note: Special capacitance values, voltage ratings and sizes available to customer requirement.

Intermediate value available.

STANDARD RATINGS AT 85°C

50 VOLTS DC WORKING

Capacitance MFD	Diameter	Length	Cat. No.
.001	.218	.625	133A102M
.0015	.218	.625	133A152M
.0022	.218	.625	133A222M
.0033	.218	.625	133A332M
.0039	.218	.625	133A392M
.0047	.218	.625	133A472M
.0068	.218	.625	133A682M
.0082	.218	.625	133A822M
.01	.218	.625	133A103M
.015	.260	.625	133A153M
.022	.260	.750	133A223M
.027	.290	.750	133A273M
.033	.325	.750	133A333M
.039	.350	.812	133A393M
.047	.375	.812	133A473M
.068	.390	.937	133A683M
.082	.420	.937	133A823M
.1	.420	.937	133A104M
.12	.460	1.000	133A124M
.15	.460	1.125	133A154M
.18	.500	1.125	133A184M
.22	.600	1.125	133A224M
.27	.655	1.437	133A274M
.39	.703	1.437	133A394M
.47	.734	1.562	133A474M

100 VOLTS DC WORKING

Capacitance μf	Diameter	Length	Cat. No.
.001	.218	.750	133B102M
.0015	.218	.750	133B152M
.0022	.218	.750	133B222M
.0033	.218	.750	133B332M
.0039	.218	.750	133B392M
.0047	.218	.750	133B472M
.0068	.234	.750	133B682M
.0082	.234	.750	133B822M
.01	.296	.750	133B103M
.012	.296	.750	133B123M
.015	.296	.750	133B153M
.022	.318	.875	133B223M
.027	.328	.875	133B273M
.033	.343	.875	133B333M
.039	.359	.875	133B393M
.047	.375	.875	133B473M
.068	.406	1.000	133B683M
.082	.460	1.000	133B823M
.1	.460	1.000	133B104M
.15	.460	1.125	133B154M
.18	.500	1.125	133B184M
.22	.600	1.125	133B224M
.27	.655	1.437	133B274M
.39	.703	1.437	133B394M
.47	.734	1.562	133B474M

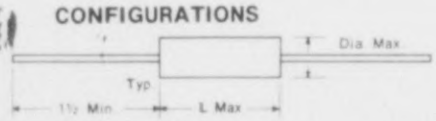
200 VOLTS DC WORKING

Capacitance μf	Diameter	Length	Cat. No.
.001	.218	.750	133C102M
.0015	.218	.750	133C152M
.0022	.218	.750	133C222M
.0033	.218	.750	133C332M
.0039	.218	.750	133C392M
.0047	.218	.750	133C472M
.0068	.234	.750	133C682M
.0082	.234	.750	133C822M
.01	.296	1.000	133C103M
.012	.296	1.000	133C123M
.015	.296	1.000	133C153M
.022	.318	1.000	133C223M
.027	.375	1.000	133C273M
.033	.375	1.000	133C333M
.039	.437	1.125	133C393M
.047	.437	1.125	133C473M
.068	.500	1.125	133C683M
.082	.562	1.375	133C823M
.1	.500	1.375	133C104M
.15	.625	1.375	133C154M
.18	.687	1.375	133C184M
.22	.687	1.812	133C224M
.27	.687	1.812	133C274M
.39	.875	1.812	133C394M
.47	1.000	1.812	133C474M

400 VOLTS DC WORKING

Capacitance μf	Diameter	Length	Cat. No.
.001	.218	.750	133E102M
.0015	.218	.750	133E152M
.0022	.218	.750	133E222M
.0033	.218	.750	133E332M
.0039	.218	.750	133E392M
.0047	.218	.750	133E472M
.0068	.234	.750	133E682M
.0082	.234	.750	133E822M
.01	.320	1.000	133E103M
.012	.320	1.000	133E123M
.015	.400	1.000	133E153M
.022	.400	1.000	133E223M
.027	.450	1.125	133E273M
.033	.450	1.125	133E333M
.039	.515	1.125	133E393M
.047	.515	1.125	133E473M
.068	.562	1.125	133E683M
.082	.562	1.375	133E823M
.1	.640	1.375	133E104M
.15	.640	1.812	133E154M
.18	.700	1.812	133E184M
.22	.750	1.812	133E224M
.27	.750	1.812	133E274M
.39	1.000	1.812	133E474M
.47	1.000	1.812	133E474M

CONFIGURATIONS



LEAD WIRE SIZE

No. 22 AWG. (.025) for cases up to .325 Dia.

No. 20 AWG. (.032) for cases .326 thru 1.0 Dia.

No. 18 AWG. (.040) for cases above 1.0 Dia.

668

Nytronics Components Group Inc.

CERAMIC TUBE CAPACITORS/TYPE CT
PAPER DIELECTRIC-OIL IMPREGNATED
U.L. APPROVED FOR "ACROSS-THE-LINE" USE

GENERAL

Type CT are mineral oil impregnated, paper and foil capacitors, non-inductively wound. The case is of steatite ceramic with epoxy resin endfill.

ELECTRICAL SPECIFICATION

Temperature Range: −40°C to +85°C with full rated voltage applied.

Dielectric Strength at 25°C.: The capacitors will withstand the following test voltage for 5 seconds when applied thru a current limiting resistor of not less than 20 OHMS per volt.

600 VDC and less: 250% of rated voltage.

Greater than 600 VDC: 200% of rated voltage.

Dissipation Factor: The dissipation factor shall not exceed 1.% when measured at +25°C. Units shall be measured at 1000 CPS for capacitance of 1. MFD and less, and 60 CPS for capacitance greater than 1. MFD.

Insulation Resistance:

Temperature	Megohms MFD	Megohms Need Not Exceed
25°C	2000	10,000
85°C	20	250

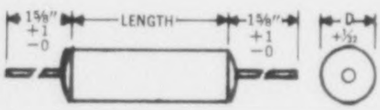
Humidity Test: The capacitor shall withstand continuous exposure at a relative humidity of 95% at a temperature of 40°C. for 250 hours. At the conclusion of the test, after drying in circulating air at room temperature for four hours, the insulation resistance shall not be less than one-third of the value shown in the specifications above.

Life Test: The capacitor shall withstand 150% of rated voltage at 85°C for 250 hours. Not more than one failure in twelve allowed. After life test, the insulation resistance shall not be less than one half of the initial requirements. Power factor shall not exceed 1.5% and the dielectric strength shall be the same as the initial requirements. All measurements at 25°C.

Underwriters' Laboratory Testing: Those capacitors rated .001 to .22 MFD and 400 or 600 WVDC shall meet or exceed the requirements of UL Subject 492 pertaining to antenna coupling, line by-pass and across-the-line components including the "UL Flame Test", "Across-The-Line Discharge Test" and "Expulsion Test". (See Nytronics Yellow Card Approval #E46325, dated 6 March, 1970.

TINNED COPPERWELD LEADS

Nominal Wire Dia.	Nominal Tube Dia.
#22 AWG (.025)	Thru .374 Dia.
#20 AWG (.032)	.375 thru .717 Dia.
#18 AWG (.040)	.718 & larger Dia.



Contact factory for the following:
1600 VDC
Intermediate values,
Type 177 (solid impregnate)

Smaller size, UL approval for antenna coupling and line-by-pass application.

Nytronics Part No.	Capacitance MFD	Dia.	Length	Nytronics Part No.	Capacitance MFD	Dia.	Length
200 VOLTS DC WORKING							
CT2-D1	.001	.300	.875	CT2-S47	.047	.400	1.187
CT2-D15	.0015	.300	.875	CT2-S68	.068	.467	1.437
CT2-D22	.0022	.300	.875	CT2-S82	.082	.540	1.437
CT2-D33	.0033	.300	.875	CT2-P1	.1	.540	1.437
CT2-D47	.0047	.300	.875	CT2-P12	.12	.548	1.500
CT2-D68	.0068	.300	.875	CT2-P15	.15	.640	1.875
CT2-D82	.0082	.300	.875	CT2-P22	.22	.640	1.875
CT2-S1	.01	.300	.875	CT2-P33	.33	.738	1.875
CT2-S12	.012	.340	.937	CT2-P39	.39	.738	1.875
CT2-S18	.018	.340	.937	CT2-P47	.47	.785	1.875
CT2-S22	.022	.400	1.187	CT2-P56	.56	.875	2.250
CT2-S27	.027	.400	1.187	CT2-P82	.82	.937	2.500
CT2-S33	.033	.400	1.187	CT2-1	1.	.937	2.750
400 VOLTS DC WORKING							
CT4-D1	.001	.300	.875	CT4-S47	.047	.540	1.437
CT4-D15	.0015	.300	.875	CT4-S56	.056	.548	1.500
CT4-D18	.0018	.300	.875	CT4-S68	.068	.562	1.625
CT4-D22	.0022	.300	.875	CT4-S82	.082	.562	1.625
CT4-D33	.0033	.300	.875	CT4-P1	.1	.640	1.750
CT4-D47	.0047	.300	.875	CT4-P12	.12	.640	1.875
CT4-D68	.0068	.340	.937	CT4-P15	.15	.738	1.875
CT4-D82	.0082	.375	1.000	CT4-P18	.18	.785	1.875
CT4-S1	.01	.375	1.000	CT4-P22	.22	.812	2.000
CT4-S12	.012	.400	1.187	CT4-P27	.27	.875	2.250
CT4-S15	.015	.400	1.187	CT4-P33	.33	.875	2.250
CT4-S22	.022	.467	1.250	CT4-P39	.39	.937	2.500
CT4-S33	.033	.467	1.250	CT4-P47	.47	.937	2.500
CT4-S39	.039	.540	1.437				
600 VOLTS DC WORKING							
CT6-D1	.001	.340	.937	CT6-S47	.047	.540	1.437
CT6-D15	.0015	.340	.937	CT6-S56	.056	.640	1.750
CT6-D22	.0022	.340	.937	CT6-S68	.068	.640	1.750
CT6-D33	.0033	.340	.937	CT6-S82	.082	.640	1.875
CT6-D47	.0047	.340	.937	CT6-P1	.1	.640	1.875
CT6-D68	.0068	.400	1.187	CT6-P12	.12	.738	1.875
CT6-D82	.0082	.400	1.187	CT6-P15	.15	.785	1.875
CT6-S1	.01	.400	1.187	CT6-P18	.18	.785	1.875
CT6-S12	.012	.400	1.187	CT6-P22	.22	.812	2.000
CT6-S15	.015	.400	1.187	CT6-P27	.27	.937	2.500
CT6-S22	.022	.467	1.250	CT6-P33	.33	.937	2.500
CT6-S33	.033	.540	1.437	CT6-P39	.39	.937	2.750
CT6-S39	.039	.540	1.437	CT6-P47	.47	.937	2.750
1000 VOLTS DC WORKING							
CT10-D1	.001	.340	.937	CT10-S22	.022	.540	1.437
CT10-D15	.0015	.340	.937	CT10-S25	.025	.548	1.500
CT10-D18	.0018	.340	.937	CT10-S27	.027	.548	1.500
CT10-D22	.0022	.340	.937	CT10-S33	.033	.640	1.750
CT10-D27	.0027	.400	1.187	CT10-S39	.039	.640	1.750
CT10-D33	.0033	.400	1.187	CT10-S47	.047	.640	1.750
CT10-D39	.0039	.400	1.187	CT10-S56	.056	.738	1.875
CT10-D47	.0047	.400	1.187	CT10-S82	.082	.785	1.875
CT10-D68	.0068	.400	1.187	CT10-P1	.1	.785	1.875
CT10-D82	.0082	.400	1.187	CT10-P12	.12	.812	2.125
CT10-S1	.01	.400	1.187	CT10-P15	.15	.812	2.125
CT10-S12	.012	.467	1.250	CT10-P18	.18	.937	2.500
CT10-S15	.015	.467	1.250	CT10-P22	.22	.937	2.500

NYTRONICS CATALOG NUMBERING SYSTEM

CT — Nytronics Type

2 — Rated Voltage In Hundreds
- 2 = 200 VDC
- 4 = 400 VDC
- 6 = 600 VDC
- 10 = 1000 VDC
- 16 = 1600 VDC

P — Capacitance
- D = .001 to .0099 μF
- S = .01 to .099 μF
- P = .1 to .99 μF
- No Letter = 1 μF or greater

22 — Capacitance Significant Figures

Example — A Type CT Capacitor rated .22 μF, 200 WVDC is described by CT2-P22
A Type CT Capacitor rated .022 μF, 400 WVDC is described by CT4-S22

ORANGE STREET, DARLINGTON, S. C. 29532 • (803) 393-5421 • TWX 810-665-2182

669

Nytronics Components Group Inc.

NEW METALLIZED POLYESTER CAPACITORS TYPE 188/FILM WRAP/EPOXY END FILL –55°C TO +125°C

Type 188 Capacitors features extremely small size, light weight and self clearing metallized construction which virtually eliminates catastrophic failures. Well suited for Voltage Multiplier Circuits in TV power supplies and Electrostatic copiers. Also ideal for Potting or encapsulating in Electronic Sub assemblies, Power supplies, etc.

CAPACITANCE

Measurements shall be made at 1000 cycles per second for capacitance values thru 1. MFD and at 60 cycles per second for values over 1. MFD.

CAPACITANCE TOLERANCE

Standard capacitance tolerance is ±20% (M). Closer tolerances available upon request.

DISSIPATION FACTOR

The dissipation factor shall not exceed 1% when measured at 25°C. Measurements shall be made at 1000 Hz for capacitance values thru 1. MF and at 60 Hz for higher values.

TEST VOLTAGE

Capacitors shall withstand 200% of rated DC voltage for one minute at 25°, with the charging and discharge current limited to a maximum of 1. Ampere.

OPERATING TEMPERATURES

−55°C to +125°C.

LIFE TEST

Capacitors shall withstand a life test of 250 hours at 125°C, with 140% of the 125°C rated DC voltage applied. A resistance of one ohm per volt of applied voltage shall be inserted in series with the capacitor.

VOLTAGE DERATING

These capacitors will operate as full DC voltage ratings at 85°C. For operation at temperatures above 85°C.

VIBRATION

Capacitors shall withstand a vibration test per Method 204, Test condition B of MIL-STD-202B as modified by MIL-C-27287.

INSULATION RESISTANCE

Temperature	Megohms x MF	IR Need Not Exceed Megohms
25°C	20,000	50,000
85°C	1,000	5,000
125°C	10	100

Measurements, shall be made after two minutes charge at rated voltage or 500 VDC, whichever is less.

HUMIDITY TEST

These capacitors shall meet the humidity test requirements of MIL-STD-202 Method, 103B, Test condition B.

NOMENCLATURE

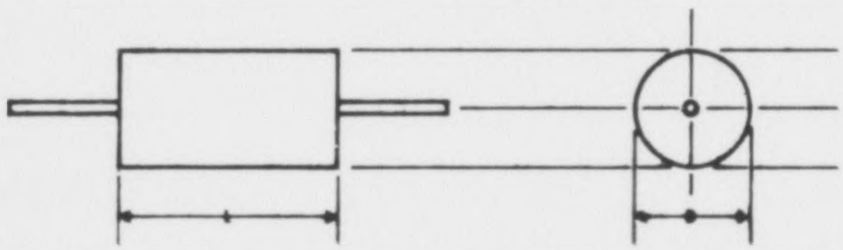
188 E 104 M

Case Style
188 - Cylindrical
189 - Flat Oval

DC Rated Voltage
B = 100 VDC
C = 200 VDC
E = 400 VDC
F = 600 VDC

Capacitance
Expressed in pf, first two digits are significant figures, third digit indicates number of zeroes following first two digits.

Capacitance Tolerance
M = ±20%
K = ±10%
J = ±5%



Capacitance	Diameter	Length	Cat. No.
100 VOLTS DC WORKING			
.010	.16	.40	188B103M
.012	.16	.40	188B123M
.015	.16	.40	188B153M
.018	.16	.40	188B183M
.022	.16	.40	188B223M
.027	.16	.40	188B273M
.033	.16	.40	188B333M
.039	.18	.40	188B393M
.047	.20	.40	188B473M
.056	.16	.53	188B563M
.068	.16	.53	188B683M
.082	.17	.53	188B823M
.10	.19	.53	188B104M
.12	.20	.53	188B124M
.15	.19	.65	188B154M
.18	.21	.65	188B184M
.22	.23	.65	188B224M
.27	.25	.65	188B274M
.33	.27	.65	188B334M
.39	.29	.65	188B394M
.47	.26	.78	188B474M
.56	.28	.78	188B564M
.68	.30	.78	188B684M
.82	.33	.78	188B824M
1.0	.36	.78	188B105M
1.2	.34	.97	188B125M
1.5	.37	.97	188B155M
2.0	.42	.97	188B205M
2.5	.42	1.17	188B255M
3.0	.45	1.17	188B305M
3.5	.49	1.17	188B355M
4.0	.52	1.17	188B405M
4.5	.49	1.45	188B455M
5.0	.52	1.45	188B505M
200 VOLTS DC WORKING			
.010	.16	.40	188C103M
.012	.17	.40	188B123M
.015	.19	.40	188C153M
.018	.21	.40	188C183M
.022	.16	.53	188C223M
.027	.17	.53	188C273M
.033	.19	.53	188C333M
.039	.20	.53	188C393M
.047	.18	.65	188C473M
.056	.20	.65	188C563M
.068	.21	.65	188C683M
.082	.23	.65	188C823M
.10	.25	.65	188C104M
.12	.27	.65	188C124M
.15	.30	.65	188C154M
.18	.27	.78	188C184M
.22	.30	.78	188C224M
.27	.32	.78	188C274M
.33	.35	.78	188C334M
.39	.33	.97	188C394M
.47	.35	.97	188C474M
.56	.38	.97	188C564M
.68	.42	.97	188C684M
.82	.46	.97	188C824M
1.0	.45	1.17	188C105M
1.2	.49	1.17	188C125M
1.5	.54	1.17	188C155M
2.0	.56	1.45	188C205M
2.5	.61	1.45	188C255M
3.0	.67	1.45	188C305M
3.5	.65	1.68	188C355M
4.0	.69	1.68	188C405M
4.5	.73	1.68	188C455M
5.0	.77	1.68	188C505M
400 VOLTS DC WORKING			
.010	.20	.40	188E103M
.012	.16	.53	188E123M
.015	.17	.53	188E153M
.018	.19	.53	188E183M
.022	.20	.53	188E223M
.027	.18	.65	188E273M
.033	.20	.65	188E333M
.039	.21	.65	188E393M
.047	.23	.65	188E473M
.056	.25	.65	188E563M
.068	.27	.65	188E683M
.082	.25	.78	188E823M
.10	.27	.78	188E104M
.12	.29	.78	188E124M
.15	.32	.78	188E154M
.18	.35	.78	188E184M
.22	.33	.97	188E224M
.27	.36	.97	188E274M
.33	.39	.97	188E334M
.39	.42	.97	188E394M
.47	.46	.97	188E474M
.56	.44	1.17	188E564M
.68	.48	1.17	188E684M
.82	.54	1.17	188E824M
1.0	.53	1.45	188E105M
1.2	.57	1.45	188E125M
1.5	.63	1.45	188E155M
2.0	.65	1.68	188E205M
2.5	.73	1.68	188E255M
3.0	.79	1.68	188E305M
3.5	.85	1.68	188E355M
4.0	.78	2.25	188E405M
4.5	.83	2.25	188E455M
5.0	.87	2.25	188E505M

FOR 600 VDC CONTACT FACTORY.
INTERMEDIATE VALUES AVAILABLE.

ORANGE STREET, DARLINGTON, S. C. 29532 • (803) 393-5421 • TWX 810-665-2182

670

Nytronics Components Group Inc.

NEW METALLIZED POLYESTER CAPACITORS
TYPE 189/FILM WRAP/EPOXY END FILL
−55°C TO +125°C

Type 189 Capacitors features extremely small size, light weight and self clearing metallized construction which virtually eliminates catastrophic failures. Well suited for Voltage Multiplier Circuits in TV power supplies and Electrostatic copiers. Also ideal for Potting or encapsulating in Electronic Sub assemblies, Power supplies, etc.

CAPACITANCE
Measurements shall be made at 1000 cycles per second for capacitance values thru 1. MFD and at 60 cycles per second for values over 1. MFD.

CAPACITANCE TOLERANCE
Standard capacitance tolerance is ±20% (M). Closer tolerances available upon request.

DISSIPATION FACTOR
The dissipation factor shall not exceed 1% when measured at 25°C. Measurements shall be made at 1000 Hz for capacitance values thru 1. MF and at 60 Hz for higher values.

TEST VOLTAGE
Capacitors shall withstand 200% of rated DC voltage for one minute at 25°, with the charging and discharge current limited to a maximum of 1. Ampere.

OPERATING TEMPERATURES
−55°C to +125°C.

LIFE TEST
Capacitors shall withstand a life test of 250 hours at 125°C, with 140% of the 125°C rated DC voltage applied. A resistance of one ohm per volt of applied voltage shall be inserted in series with the capacitor.

VOLTAGE DERATING
These capacitors will operate as full DC voltage ratings at 85°C. For operation at temperatures above 85°C.

VIBRATION
Capacitors shall withstand a vibration test per Method 204, Test condition B of MIL-STD-202B as modified by MIL-C-27287.

INSULATION RESISTANCE

Temperature	Megohms x MF	IR Need Not Exceed Megohms
25°C	20,000	50,000
85°C	1,000	5,000
125°C	10	100

Measurements, shall be made after two minutes charge at rated voltage or 500 VDC, whichever is less.

HUMIDITY TEST
These capacitors shall meet the humidity test requirements of MIL-STD-202 Method, 103B, Test condition B.

NOMENCLATURE

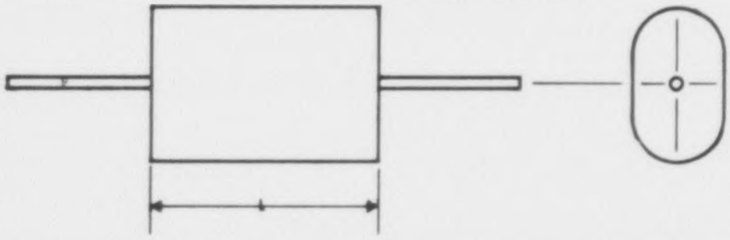
189 E 104 M

Case Style
188 - Cylindrical
189 - Flat Oval

DC Rated Voltage
B = 100 VDC
C = 200 VDC
E = 400 VDC
F = 600 VDC

Capacitance
Expressed in pf, first two digits are significant figures, third digit indicates number of zeroes following first two digits.

Capacitance Tolerance
M = ±20%
K = ±10%
J = ±5%



Capacitance	Thickness	Width	Length	Cat. No.
100 VOLTS DC WORKING				
.010	.10	.20	.40	189B103M
.012	.10	.20	.40	189B123M
.015	.10	.20	.40	189B153M
.018	.10	.20	.40	189B183M
.022	.10	.20	.40	189B223M
.027	.10	.20	.40	189B273M
.033	.10	.20	.40	189B333M
.039	.10	.20	.40	189B393M
.047	.10	.22	.40	189B473M
.056	.11	.24	.40	189B563M
.068	.10	.20	.53	189B683M
.082	.10	.20	.53	189B823M
.10	.10	.20	.53	189B104M
.12	.10	.23	.53	189B124M
.15	.12	.25	.53	189B154M
.18	.14	.27	.53	189B184M
.22	.17	.30	.53	189B224M
.27	.19	.32	.53	189B274M
.33	.21	.34	.53	189B334M
.39	.24	.37	.53	189B394M
.47	.21	.34	.65	189B474M
.56	.23	.36	.65	189B564M
.68	.27	.40	.65	189B684M
.82	.24	.37	.78	189B824M
1.0	.26	.42	.78	189B105M
1.2	.29	.45	.78	189B125M
1.5	.33	.49	.78	189B155M
2.0	.32	.48	.97	189B205M
2.5	.36	.52	.97	189B255M
3.0	.35	.51	1.17	189B305M
3.5	.38	.54	1.17	189B355M
4.0	.41	.57	1.17	189B405M
4.5	.44	.60	1.17	189B455M
5.0	.47	.63	1.17	189B505M
6.0	.52	.68	1.17	189B605M
8.0	.46	.62	1.68	189B805M
10.0	.53	.69	1.68	189B106M
200 VOLTS DC WORKING				
.010	.10	.20	.40	189C103M
.012	.10	.20	.40	189C123M
.012	.10	.20	.40	189C153M
.018	.13	.23	.40	189B183M
.022	.13	.26	.40	189C223M
.027	.10	.20	.53	189C273M
.033	.12	.22	.53	189C333M
.039	.12	.25	.53	189C393M
.047	.13	.26	.53	189C473M
.056	.14	.27	.53	189C563M
.068	.16	.29	.53	189C683M
.082	.18	.31	.53	189C823M
.10	.20	.33	.53	189C104M
.12	.22	.35	.53	189C124M
.15	.26	.39	.53	189C154M
.18	.24	.37	.65	189C184M
.22	.26	.39	.65	189C224M
.27	.24	.37	.78	189C274M
.33	.27	.40	.78	189C334M
.39	.30	.43	.78	189C394M
.47	.33	.46	.78	189C474M
.56	.37	.50	.78	189C564M
.68	.32	.48	.97	189C684M
.82	.35	.51	.97	189C824M
1.0	.35	.51	1.17	189C105M
1.2	.38	.54	1.17	189C125M
1.5	.43	.59	1.17	189C155M
2.0	.52	.68	1.17	189C205M
2.5	.46	.62	1.68	189C255M
3.0	.49	.65	1.68	189C305M
3.5	.54	.70	1.68	189C355M
4.0	.58	.74	1.68	189C405M
4.5	.62	.78	1.68	189C455M
5.0	.64	.84	1.68	189C505M
6.0	.70	.90	1.68	189C605M
8.0	.84	1.04	1.68	189C805M
10.0	.75	.95	2.25	189C106M
400 VOLTS DC WORKING				
.010	.14	.24	.40	189E103M
.012	.10	.23	.53	189E123M
.015	.11	.21	.53	189E153M
.018	.12	.22	.53	189E183M
.022	.12	.25	.53	189E223M
.027	.13	.26	.53	189E273M
.033	.15	.28	.53	189E333M
.039	.17	.30	.53	189E393M
.047	.19	.32	.53	189E473M
.056	.21	.34	.53	189E563M
.068	.23	.36	.53	189E683M
.082	.26	.39	.53	189E823M
.10	.23	.36	.65	189E104M
.12	.25	.38	.65	189E124M
.15	.24	.37	.78	189E154M
.18	.26	.39	.78	189E184M
.22	.30	.43	.78	189E224M
.27	.33	.46	.78	189E274M
.33	.36	.52	.78	189E334M
.39	.33	.49	.97	189E394M
.47	.33	.53	.97	189E474M
.56	.34	.50	1.17	189E564M
.68	.38	.54	1.17	189E684M
.82	.43	.59	1.17	189E824M
1.0	.48	.64	1.17	189E105M
1.2	.54	.70	1.17	189E125M
1.5	.46	.62	1.68	189E155M
2.0	.54	.70	1.68	189E205M
2.5	.60	.80	1.68	189E255M
3.0	.67	.87	1.68	189E305M
3.5	.73	.93	1.68	189E355M
4.0	.78	.98	1.68	189E405M
4.5	.69	.89	2.25	189E455M
5.0	.75	.95	2.25	189E505M

FOR 600 VDC CONTACT FACTORY.
INTERMEDIATE VALUES AVAILABLE.

ORANGE STREET, DARLINGTON, S. C. 29532 • (803) 393-5421 • TWX 810-665-2182

Nytronics Components Group Inc.

HIGH VOLTAGE TUBULAR CAPACITORS
DUAL DIELECTRIC/OIL IMPREGNATED
PHENOLIC CASED/EPOXY END FILL/TYPE 161

RECOMMENDED APPLICATIONS

Nytronics Type 161 Capacitors are well-suited for use in Oscilloscopes, Electronic Air Cleaners, Power Supplies of industrial devices, and related equipment. The design of these capacitors employs a Paper/Polyester Film Section, oil impregnated, incased in a phenolic tube designed specifically for high voltage application. A unique epoxy endfill process precludes oil seepage which occasionally occurs in similar designs.

TYPICAL RATINGS

CAP/MFD	3000 VDC	5000 VDC	8000 VDC	10,000 VDC
.005	½ x 1½	9/16 x 1⅞	¾ x 2	¾ x 2½
.01	9/16 x 1⅞	¾ x 1⅞	¾ x 2¼	⅞ x 2½
.05	¾ x 2 1/16	1 x 2½	1 x 4¼	1½ x 3⅛

NOTE: Other Ratings can be designed to your specifications.

OPERATING TEMPERATURE

−55°C to +85°C at full rated voltage.

DISSIPATION FACTOR

Will not exceed 1% at 25°C.

MEASUREMENTS

Capacitance up to 1 microfarad are measured at a frequency of 1000 cycles per second and capacitances over 1 microfarad at 60 cps.

DIELECTRIC STRENGTH TEST

Units will withstand a potential of 150% of rated voltage applied for one minute at 25°C.

STANDARD TOLERANCE

±20%. Other tolerances available on request.

STANDARD MARKING

Nytronics, Part No., Capacitance, Voltage, and Date Code.

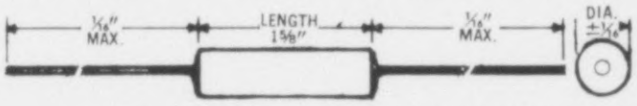
INSULATION RESISTANCE

When measured at the applicable test temperature with an electrification time of two minutes at 500 volts shall be equal to or greater than the values listed below:

Test Temperature	25°C	85°C
Megohms X Microfarads	2000	10
except that the insulation resistance in megohms need not exceed	25000	250

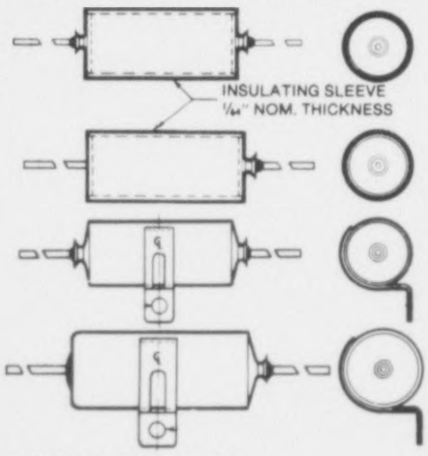
MOISTURE RESISTANCE

These capacitors will meet the moisture resistance requirements of EIA Specification RS-164, which requires units to withstand a 95% Relative Humidity at 40°C, except time of exposure may be increased to 500 hours. After exposure and subsequent drying periods, the insulation resistance will not be less than ⅓ of the initial requirement.



Tinned Copperweld Leads #20 AWG (.032) for sizes to ⅝" Dia.
#18 AWG (.040) for sizes ⅝" Dia. and over.

POLYSTYRENE FILM CAPACITORS HERMETICALLY SEALED
TYPE 231/−65°C TO +85°C



NUMBERING SYSTEM

231 A 3 E 104 M 2

- 231: Nytronics 231 Polystyrene
- A: Wire Leads No. 22 AWG (.025) for case dia. .312 & under; No. 20 AWG (.032) for case dia. over .312
- 3: Circuit 1; Circuit 3
- E: B = 100, C = 200, E = 400, F = 600
- 104: Capacitance in μμf. The first two digits are the significant figures, the third is the number of zeroes.
- M: Capacitance Tolerance M = ±20%, K = ±10 %, J = ±5%, G = ±2%, F = ±1%
- 2: Style

STANDARD RATINGS

Tolerance to ±1%
Tolerances Less Than ±.1% Available
Temperature Coefficient 120 PPM/°C
±30 PPM/°C
See Pages 2 and 3 for other notes.

100 VOLTS DC WORKING

Nytronics Part No.	Capacitance μf	Dia. ±.016	Length ±1/16
231A1B822K	.0082	.235	1 5/16
231A1B103K	.01	.235	1 5/16
231A1B153K	.015	.235	1 5/16
231A1B223K	.022	.312	1 5/16
231A1B333K	.033	.312	1 5/16
231A1B473K	.047	.400	1 5/16
231A1B683K	.068	.400	1 5/16
231A1B104K	.10	.562	1 5/16
231A1B154K	.15	.562	1 5/16
231A1B224K	.22	.562	1 5/16
231A1B274K	.27	.670	1 5/16
231A1B334K	.33	.670	1 5/16
231A1B394K	.39	.670	1 11/16
231A1B474K	.47	.670	1 11/16
231A1B564K	.56	.670	1 11/16
231A1B684K	.68	.750	1 11/16
231A1B824K	.82	1.000	1 11/16
231A1B105K	1.0	1.000	1 11/16
231A1B125K	1.2	1.000	1 11/16

200 VOLTS DC WORKING

Nytronics Part No.	Capacitance μf	Dia. ±.016	Length ±1/16
231A1C472K	.0047	.235	1 5/16
231A1C822K	.0082	.312	1 5/16
231A1C103K	.01	.312	1 5/16
231A1C123K	.012	.312	1 5/16
231A1C153K	.015	.312	1 5/16
231A1C183K	.018	.312	1 5/16
231A1C223K	.022	.400	1 5/16
231A1C333K	.033	.400	1 5/16
231A1C473K	.047	.562	1 5/16
231A1C683K	.068	.562	1 5/16
231A1C104K	.10	.562	1 5/16
231A1C154K	.15	.670	1 5/16
231A1C184K	.18	.670	1 5/16
231A1C224K	.22	.670	1 11/16
231A1C334K	.33	.750	1 11/16
231A1C474K	.47	1.000	1 11/16
231A1C564K	.56	1.000	1 11/16

400 VOLTS DC WORKING

Nytronics Part No.	Capacitance μf	Dia. ±.016	Length ±1/16
231A1E222K	.0022	.235	1 5/16
231A1E472K	.0047	.312	1 5/16
231A1E822K	.0082	.312	1 5/16
231A1E103K	.01	.312	1 5/16
231A1E153K	.015	.400	1 5/16
231A1E223K	.022	.400	1 5/16
231A1E333K	.033	.562	1 5/16
231A1E473K	.047	.562	1 5/16
231A1E683K	.068	.562	1 5/16
231A1E823K	.082	.670	1 5/16
231A1E104K	.10	.670	1 5/16
231A1E154K	.15	.670	1 11/16
231A1E224K	.22	.750	1 11/16
231A1E334K	.33	1.000	1 11/16
231A1E474K	.47	1.000	1 11/16

600 VOLTS DC WORKING

Nytronics Part No.	Capacitance μf	Dia. ±.016	Length ±1/16
231A1F102K	.001	.235	1 5/16
231A1F152K	.0015	.235	1 5/16
231A1F222K	.0022	.312	1 5/16
231A1F472K	.0047	.312	1 5/16
231A1F822K	.0082	.312	1 5/16
231A1F103K	.01	.400	1 5/16
231A1F153K	.015	.562	1 5/16
231A1F223K	.022	.562	1 5/16
231A1F273K	.027	.562	1 5/16
231A1F333K	.033	.562	1 5/16
231A1F473K	.047	.670	1 5/16
231A1F683K	.068	.562	1 11/16
231A1F823K	.082	.670	1 11/16
231A1F104K	.10	.670	1 11/16
231A1F154K	.15	1.000	1 11/16
231A1F224K	.22	1.000	1 11/16

ORANGE STREET, DARLINGTON, S. C. 29532 • (803) 393-5421 • TWX 810-665-2182

672

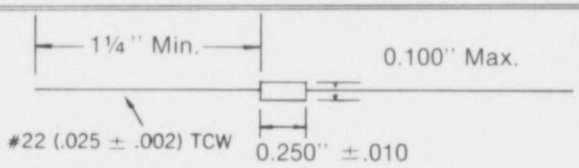
Nytronics Components Group Inc.
ORANGE STREET, DARLINGTON, S. C. 29532
(803) 393-5421 • TWX 810-665-2182

CERAMIC CAPACITORS

The DECI-CAP

4.7 pF to 47,000 pF in 49 Standard Values.
Available from stock for Immediate Delivery.
Epoxy molded for highest performance and reliability.
High density cordwood packaging facilitated by single size.
(.100 diameter x .250 length for entire range.)

DECI-CAPS offer the design engineer unique epoxy-molded reliability and a new high standard in performance. These subminiature ceramic capacitors feature low power factor and exhibit outstanding stability over the entire —55° to +125°C operating range. Rugged epoxy molded envelope and high quality ceramic dielectric is designed to meet the environmental requirements of MIL-C-11015.



Electrical Characteristics	Deci-Cap
Capacitance Range, pF	4.7 to 27,000
Working Voltage 4.7 to 470 pF 560-27000 33000-47000	 200 VDC 100 VDC 50 VDC
Standard Tolerance	±10%
Dissipation Factor	.025 Max.
I.R., Megohms	20,000 Min.
Max. Charge from 25°C Capacitance, —55 to +125°C	± 15%

Cap., pF	Deci-Cap Cat. No.
4.7	DC-047
5.6	DC-056
6.8	DC-068
8.2	DC-082
10	DC-100
12	DC-120
15	DC-150
18	DC-180
22	DC-220
27	DC-270
33	DC-330
39	DC-390
47	DC-470
56	DC-560
68	DC-680
82	DC-820
100	DC-101
120	DC-121
150	DC-151
180	DC-181
220	DC-221
270	DC-271
330	DC-331
390	DC-391
470	DC-471

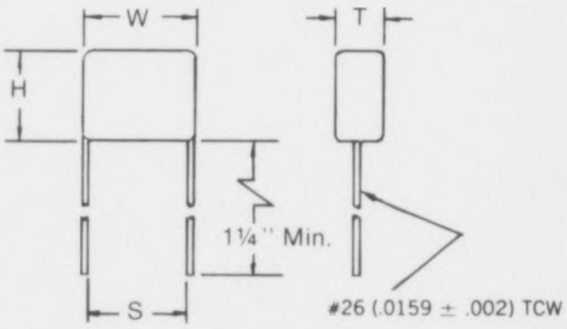
Cap., pF	Deci-Cap Cat. No.
560	DC-561
680	DC-681
820	DC-821
1000	DC-102
1200	DC-122
1500	DC-152
1800	DC-182
2200	DC-222
2700	DC-272
3300	DC-332
3900	DC-392
4700	DC-472
5600	DC-562
6800	DC-682
8200	DC-822
10000	DC-103
12000	DC-123
15000	DC-153
18000	DC-183
22000	DC-223
27000	DC-273
33000	DC-333
39000	DC-393
47000	DC-473

Add K to Cat. No. for ±10% Tol, J for ±5%, M for ±20%

The HY-CAP

High Capacity Ceramic Capacitor. Capacitance Range .01 mfd to 2.5 mfd.*
New size H offers higher capacitance (0.12 uf) at 100 WVDC in shorter package than CKO6, with same (.200) lead spacing.

Nytronics offers the HY-CAP Ceramic Capacitor to accommodate design application in coupling, by-pass, filter, and all other circuits where temperature stability and high capacitance are mandatory. .016 diameter leads are ideal for point-to-point wiring as well as PC work.



ELECTRICAL CHARACTERISTICS
Capacitance Range: .01 mfd to 2.5 mfd *
Tolerance: ±20% Std.; ±10% also available
Working Voltage: 100 Volts D.C. (No derating to 125°C).
Dissipation Factor: .025 Max.
Insulation Resistance: 1000 Megohm-microfarad, min.
Capacitance Change with Temperature: Max. Change ±15% from 25°C Cap., from —55° to +125°C.

Nytronics Part No.	Cap. (mfd.)	Size	Nytronics Part No.	Cap. (mfd.)	Size
HC-A-103-M	.01	A	HC-H-563-M	.056	H
HC-A-123-M	.012	A	HC-H-683-M	.068	H
HC-A-153-M	.015	A	HC-H-823-M	.082	H
HC-A-183-M	.018	A	HC-H-104-M	.10	H
HC-A-223-M	.022	A	HC-H-124-M	.12	H
HC-A-273-M	.027	A	HC-C-154-M	.15	C
HC-A-333-M	.033	A	HC-C-184-M	.18	C
HC-B-393-M	.039	B	HC-C-224-M	.22	C
HC-B-473-M	.047	B	HC-C-274-M	.27	C
HC-B-563-M	.056	B	HC-C-334-M	.33	C
HC-B-683-M	.068	B	HC-C-394-M	.39	C
HC-B-823-M	.082	B	HC-C-474-M	.47	C
HC-B-104-M	.10	B	HC-D-105-M	1.0	D
HC-B-124-M	.12	B	HC-E-155-M	1.5	E
HC-H-393-M	.039	H	HC-F-205-M	2.0	F
HC-H-473-M	.047	H	HC-G-255-M	2.5	G

Size	W max.	H max.	T max.	S ±.050
A	0.225	0.175	0.110	0.200
B	0.325	0.310	0.150	0.300
C	0.670	0.355	0.150	0.625
D	0.800	0.550	0.225	0.625
E	0.800	0.550	0.250	0.625
F	0.800	0.550	0.300	0.625
G	0.800	0.550	0.375	0.625
H	0.280	0.280	0.150	0.200

673

Nytronics Components Group Inc.
ORANGE STREET, DARLINGTON, S. C. 29532
(803) 393-5421 • TWX 810-665-2182

CERAMIC CAPACITORS

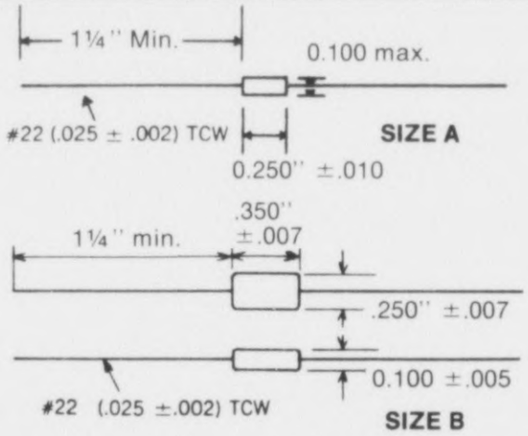
The NYT-CAP
NPO SERIES

Ultra High Stability —0 ± 25 ppm/°C Temperature Coefficient.
Transfer Molded Epoxy Case for high component density.
New extended range to 10,000 pF.
Available from stock.

A new development from Nytronics' ceramic research laboratory now makes possible the manufacture of an extremely stable ceramic capacitor in a miniature package size. Now you can have the capacitor stability long desired for use in oscillators, filters, and other critical circuitry.

ELECTRICAL CHARACTERISTICS
Capacitance Range: 4.7 pF to 10,000 pF.
Capacitance Tolerance: ±10% Standard; others available.
Working Voltage: 200 Volts D.C. to 4700 pF; 50 WVDC above this value.
Temperature Coefficient: ±25 ppm/°C over temperature range of −55°C to +125°C.
Dissipation Factor: Less than 0.001 at 25°C.
Insulation Resistance: 100,000 Megohms at 25°C. (Minimum)

Note: Hybrid Manufacturers — Also available from stock as monolithic (unencapsulated) chips for micro-circuit applications. "A" chip size is .170 X .065 X .070; "B" is .280 X .145 X .070. Other specs same as above. To order use part No. prefix NCU in place of NC.



Nytronics Part No.	Capacity (pF)	Case Size
NC-047	4.7	A
NC-056	5.6	A
NC-068	6.8	A
NC-082	8.2	A
NC-100	10	A
NC-120	12	A
NC-150	15	A
NC-180	18	A
NC-220	22	A
NC-270	27	A
NC-330	33	A

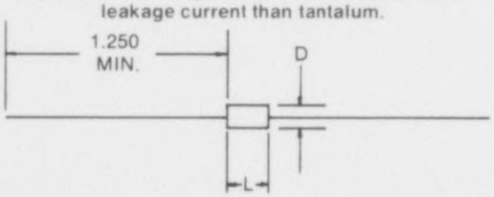
Nytronics Part No.	Capacity (pF)	Case Size
NC-390	39	A
NC-470	47	A
NC-560	56	A
NC-680	68	A
NC-820	82	A
NC-101	100	A
NC-121	120	A
NC-151	150	A
NC-181	180	A
NC-221	220	A

Nytronics Part No.	Capacity (pF)	Case Size
NC-271	270	B
NC-331	330	B
NC-391	390	B
NC-471	470	B
NC-561	560	B
NC-681	680	B
NC-821	820	B
NC-102	1000	B
NC-122	1200	B
NC-152	1500	B

Nytronics Part No.	Capacity (pF)	Case Size
Nc-182	1800	B
NC-222	2200	B
NC-272	2700	B
NC-332	3300	B
NC-392	3900	B
NC-472	4700	B
NC-562	5600	B
NC-682	6800	B
NC-822	8200	B
NC-103	10000	B

The MILI-CAP
EPOXY MOLDED EK12 - EK16

New series of encapsulated axial lead ceramic capacitors featuring values to 3.3 uf. Much lower leakage current than tantalum.



Case Size	L	D	Lead Size
A	.160 ±.010	.090 ±.010	26 Awg
B	.250 ±.010	.090 ±.010	26
C	.390 ±.010	.140 ±.010	22
D	.500 ±.020	.250 ±.015	22
E	.690 ±.030	.350 ±.020	22

ELECTRICAL CHARACTERISTICS:

Capacitance Range: 10 pF to 3.3 uF
Capacitance Tolerance: ±10% std.; other available
Power Factor: Less than 2.5% at 1 KHz, 25°C
Temperature Range: −55°C to ±125°C
Temperature Characteristic: ±15% max. Change from 25°C
Insulation Resistance: capacitance >100,000 Megohms or 1000 Megohms Microfarads, whichever is less.

Designed to meet the requirements of MIL-C-11015/20 B

Cap.	WVDC	Nytronics Catalog No.	Case Size	Cap.	WVDC	Nytronics Catalog No.	Case Size
10 Pf	100	EK12BX100K	A	10.000	100	EK13BX103K	B
12	100	EK12BX120K	A	12.000	50	EK13BX123K	B
15	100	EK12BX150K	A	15.000	50	EK13BX153K	B
18	100	EK12BX180K	A	18.000	50	EK13BX183K	B
22	100	EK12BX220K	A	22.000	50	EK13BX223K	B
27	100	EK12BX270K	A	27.000	50	EK13BR273K	B
33	100	EK12BX330K	A	33.000	50	EK13BR333K	B
39	100	EK12BX390K	A	39.000	50	EK13BR393K	B
47	100	EK12BX470K	A	47.000	50	EK13BR473K	B
56	100	EK12BX560K	A	.012 Mfd	100	EK14BX123K	C
68	100	EK12BX680K	A	.015	100	EK14BX153K	C
82	100	EK12BX820K	A	.018	100	EK14BX183K	C
100	100	EK12BX101K	A	.022	100	EK14BX223K	C
120	100	EK12BX121K	A	.027	100	EK14BX273K	C
150	100	EK12BX151K	A	.033	100	EK14BX333K	C
180	100	EK12BX181K	A	.039	100	EK14BX393K	C
220	100	EK12BX221K	A	.047	100	EK14BX473K	C
270	100	EK12BX271K	A	.056	100	EK14BR563K	C
330	100	EK12BX331K	A	.068	100	EK14BR683K	C
390	100	EK12BX391K	A	1	100	EK14BR104K	C
470	100	EK12BX471K	A	.12	50	EK14BR124K	C
560	100	EK12BX561K	A	.15	50	EK14BR154K	C
680	100	EK12BX681K	A	.18	50	EK14BR184K	C
820	100	EK12BX821K	A	.22	50	EK14BR224K	C
1000	100	EK12BX102K	A	.27	50	EK14BR274K	C
1200	100	EK12BX122K	A	1	100	EK15BX104K	D
1500	100	EK12BX152K	A	.12	100	EK15BR124K	D
1800	100	EK12BX182K	A	.15	100	EK15BR154K	D
2200	100	EK12BX222K	A	.18	100	EK15RB184K	D
2700	100	EK12BX272K	A	.22	100	EK15BR224K	D
3300	100	EK12BX332K	A	.27	100	EK15BR274K	D
3900	100	EK12BX392K	A	.33	100	EK15BR334K	D
4700	100	EK12BX472K	A	.47	50	EK15BR474K	D
5600	50	EK12BX562K	A	1.0	50	EK15BR105K	D
6800	50	EK12BX692K	A	.47	100	EK16BR474K	E
8200	50	EK12BX822K	A	1.0	100	EK16BR105K	E
10.000	50	EK12BX103K	A	2.2	50	EK16BR225K	E
5600	100	EK13BX562K	B	3.3	50	EK16BR335K	E
6800	100	EK13BX682K	B				
8200	100	EK13BX822K	B				

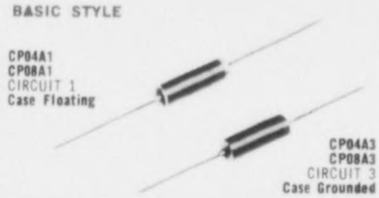
674

Nytronics Components Group Inc.
ORANGE STREET, DARLINGTON, S. C. 29532
(803) 393-5421 • TWX 810-665-2182

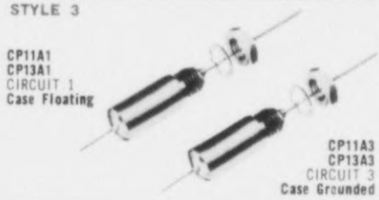
GLASSEAL PAPER CAPACITORS
OIL-PAPER CAPACITORS

SUBMINIATURE GLASSEAL PAPER CAPACITORS
MIL-C-25 LATEST REVISION

BASIC STYLE

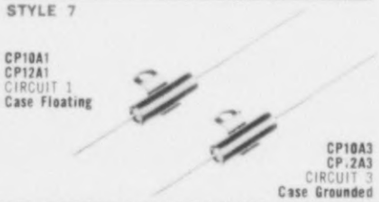


STYLE 3



STYLE V (Insulated)

STYLE 7



MILITARY DESIGNATION BREAKDOWN	CP	04	A	1	E	B	333	K/3
	Style	Case	Terminal (Axial wire lead)	Circuit	Characteristic	Voltage	Capacitance	Tolerance

	Characteristics	Voltage	Tolerance	Vibration Grade*
Circuit 1	E = −55°C. to + 85°C. K = −55°C. to +125°C.	B = 100 V. C = 200 V. E = 400 V. F = 600 V. G = 1000 V.	K = ±10% M = ±20%	1 10-55 cps 3 10-2000 cps
Circuit 3				

INSERTED TABS {CP04 — Uninsulated; CP05 — Insulated}

Cap.	100V-	200V-	400V-	600V-	1000V-
.001				F102	
.0012				F122K/3	
.0015				F152	
.0018				F182K/3	
.0022				F222	
.0027				F272K/3	
.0033				F332	
.0039				F392K/3	
.0047				F472	
.0056				F562K/3	
.0068				F682	
.0082			E822K/3	F822K/3	
.01			E103	F103	
.012		C123K/3		F123K/3	
.015		C153		F153	G153
.018		C183K/3		F183K/3	G183K/3
.022		C223		F223	G223
.027	B273K/3		E273K/3	F273K/3	G273K/3
.033	B333		E333	F333	G333
.039		C393K/3	E393K/3	F393K/3	G393K/3
.047		C473	E473	F473	G473
.056		C563K/3	E563K/3	F563K/3	G563K/3
.068		C683	E683	F683	G683
.082	B823K/3	C823K/3	E823K/3	F823K/3	G823K/3
.1	B104	C104	E104	F104	G104
.12	B124K/3	C124K/3	E124K/3	F124K/3	G124K/3
.15	B154	C154	E154	F154	G154
.18	B184K/3	C184K/3	E184K/3	F184K/3	G184K/3
.22	B224	C224	E224	F224	G224
.27	B274K/3	C274K/3	E274K/3	F274K/3	G274K/3
.33	B334	C334	E334	F334	G334
.39	B394K/3	C394K/3	E394K/3	F394K/3	G394K/3
.47	B474	C474	E474	F474	G474
.56	B564K/3	C564K/3	E564K/3	F564K/3	
.68	B684	C684	E684	F684	
.82	B824K/3	C824K/3	E824K/3		
1.0	B105	C105	E105		

EXTENDED TABS {CP08 — Uninsulated; CP09 — Insulated}

Cap.	100V-	200V-	400V-	600V-	1000V-
.001				F102	G102
.0012				F122K/3	G122K/3
.0015				F152	G152
.0018				F182K/3	G182K/3
.0022				F222	G222
.0027			E272K/3	F272K/3	G272K/3
.0033			E332	F332	G332
.0039		C392K/3		F392K/3	G392K/3
.0047		C472		F472	G472
.0056		C562K/3		F562K/3	G562K/3
.0068		C682		•F682	G682
.0082	B822K/3			F822K/3	G822K/3
.04	B103			F103	G103
.012	B123K/3		E123K/3	F123K/3	G123K/3
.015	B153		E153	F153	G153
.018		C183K/3		F183K/3	G183K/3
.022		C223		F223	G223
.027		C273K/3	E273K/3	F273K/3	G273K/3
.033		C333	E333	F333	G333
.039	B393K/3	C393K/3	E393K/3	F393K/3	G393K/3
.047	B473	C473	E473	F473	G473
.056		C563K/3	E563K/3	F563K/3	G563K/3
.068		C683	E683	F683	G683
.082	B823K/3	C823K/3	E823K/3	F823K/3	G823K/3
.1	B104	C104	E104	F104	G104
.12	B124K/3	C124K/3	E124K/3	F124K/3	G124K/3
.15	B154	C154	E154	F154	G154
.18	B184K/3	C184K/3	E184K/3	F184K/3	G184K/3
.22	B224	C224	E224	F224	G224
.27	B274K/3	C274K/3	E274K/3	F274K/3	G274K/3
.33	B334	C334	E334	F334	G334
.39	B394K/3	C394K/3	E394K/3	F394K/3	G394K/3
.47	B474	C474	E474	F474	G474
.56	B564K/3	C564K/3			
.68	B684	C684			
.82	B824K/3	C824K/3			
1.0	B105	C105			

K/3 designates available per MIL-C-25C, which specifies K characteristic, K tolerance, and vibration grades 1 or 3 only.

Type PKM Small-Base Oil-Paper Capacitors (CP61, CP63, CP65 also CP90 and CP91)

Section assembled in hermetically sealed tin-coated container. Mineral-oil impregnated and filled. Lug-type terminal seals. Suitable for use in compact equipment. Meets electrical requirements of MIL-C-25C.

Temperature Rating: −55°C to +85°C.

Standard Tolerance: −10% to +20%.

PKM VARIATIONS

PKM Basic type similar to MIL Type CP61. Example: PKM4-SS

PKMF Similar to CPE1 with CP06F footed bracket. To order: add F after PKM. Example: PKMF4-S5

PKMS Similar to CP61 with CP06S spade bracket. To order: add S after PKM. Example: PKMS4-S5

PKMT Similar to CP63 with channel bracket on end opposite terminals. To order: add T after PKM. Example: PKMT4-S5

PKMB Similar to CP65 with channel bracket on same end as terminals. To order: add B after PKM. Example: PKMB4-S5

PKMT, PKMB Channel Bracket Dimensions:
Overall Length: 2 5/16". Overall Width: 49/64" (max.).
Length between Mounting Slot Centers: 1 15/16".
Mounting Slot Width: 5/32".

Catalog Number	Cap. in UF	Size in Inches L	W	H	Dealer Net
400 Volts DC Working					
PKM4-S5	.05	1 5/16	47/64	1 1/16	1.73
PKM4-P1	.1	1 5/16	47/64	1 1/16	1.82
PKM4-P25	.25	1 5/16	47/64	1 3/8	1.87
PKM4-P5	.5	1 5/16	47/64	1 5/8	1.95
PKM4-1	1.0	1 5/16	47/64	2 1/2	2.14
600 Volts DC Working					
PKM6-S5	.05	1 5/16	47/64	1 1/16	1.76
PKM6-P1	.1	1 5/16	47/64	1 1/16	1.87
PKM6-P25	.25	1 5/16	47/64	1 5/8	1.93
PKM6-P5	.5	1 5/16	47/64	2	2.00
PKM6-1	1.0	1 5/16	47/64	2 3/4	2.24
1,000 Volts DC Working					
PKM10-S5	.05	1 5/16	47/64	1 1/16	1.83
PKM10-P1	.1	1 5/16	47/64	1 3/8	1.91
PKM10-P25	.25	1 5/16	47/64	2	1.92
PKM10-P5	.5	1 5/16	47/64	2 1/2	2.43

Type PEM Small-Base Oil-Paper Capacitors (CP67, CP69)

Section assembled in hermetically sealed tin-coated container. Mineral-oil impregnated and filled. Lug-type terminal seals. Suitable for use in compact equipment. Meets electrical requirements of MIL-C-25A.

PEM VARIATIONS

PEM Basic Type. To order: see Catalog Listing. Example: PEM6-S5

PEMT Similar to MIL Type CP67, with channel bracket on end opposite terminals. To order: add T after PEM. Example: PEMT6-S5

PEMB Similar to CP69, with channel bracket on same end as terminals. To order: add B after PEM. Example: PEMB6-S5

Standard Tolerance:
−10% to +20%.

Temperature Rating:
−55°C to +85°C.

PEMT, PEMB Channel Bracket Dimensions:
Overall Length: 2 7/16".
Overall Width: 41/64" (max.).
Length between Mounting Slot Centers: 2 1/8".
Mounting Slot Width: 5/32".

Catalog Number	Cap. in UF	Size in Inches L	W	H	Dealer Net
PEM SINGLE-CAPACITOR UNITS					
600 Volts DC Working					
PEM6-S5	.05	1 13/16	5/8	1 1/16	1.86
PEM6-P1	.1	1 13/16	5/8	1 1/16	1.92
PEM6-P25	.25	1 13/16	5/8	1 1/2	1.95
PEM6-P5	.5	1 13/16	5/8	2	2.01
PEM6-1	1.0	1 13/16	5/8	2 1/2	2.25
1,000 Volts DC Working					
PEM10-S5	.05	1 13/16	5/8	1 1/16	1.89
PEM10-P1	.1	1 13/16	5/8	1 1/16	1.95
PEM10-P25	.25	1 13/16	5/8	1 1/2	2.01
PEM10-P5	.5	1 13/16	5/8	2 1/2	2.19
PEM DUAL-CAPACITOR UNITS					
600 Volts DC Working					
2PEM6-S5	.05-.05	1 13/16	5/8	1 1/16	2.64
2PEM6-P1	.1-.1	1 13/16	5/8	1 1/2	2.69
2PEM6-P25	.25-.25	1 13/16	5/8	2	2.90
2PEM6-P5	.5-.5	1 13/16	5/8	2 1/2	3.25
1,000 Volts DC Working					
2PEM10-S5	.05-.05	1 13/16	5/8	1 1/16	2.69
2PEM10-P1	.1-.1	1 13/16	5/8	1 1/2	2.79
2PEM10-P25	.25-.25	1 13/16	5/8	2 1/2	2.97
PEM TRIPLE-CAPACITOR UNITS					
600 Volts DC Working					
3PEM6-S5	.05-.05-.05	1 13/16	5/8	1 1/16	3.16
3PEM6-P1	.1-.1-.1	1 13/16	5/8	1 1/2	3.25
3PEM6-P25	.25-.25-.25	1 13/16	5/8	2 1/2	3.53
1,000 Volts DC Working					
3PEM10-S5	.05-.05-.05	1 13/16	5/8	1 1/2	3.25
3PEM10-P1	.1-.1-.1	1 13/16	5/8	2	3.38

675

Nytronics Components Group Inc.

ORANGE STREET, DARLINGTON, S. C. 29532
(803) 393-5421 • TWX 810-665-2182

GLASSEAL PAPER CAPACITORS
OIL-PAPER CAPACITORS

CP 25 to CP 29 (TYPE PTM)

Available in capacitances from .003 thru 0.1 mf and voltages of 1500 V.D.C.

CP 40, CP41 (TYPES PCM, PCIM)

Available in capacitances from .25 mf thru 4.0 mf and voltages of 600 V.D.C. thru 1500 V.D.C.

Type PDM Bathtub-Type Oil-Paper Capacitors MIL TYPE CP53 54 55

Section assembled in hermetically sealed tin-coated drawn-shell container. Mineral-oil impregnated and filled. Lug-type terminal seals. Meets requirements of MIL-C-25C.

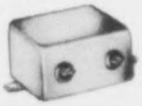
Temperature Rating: −55°C to +85°C.
Standard Tolerance: −10% to +20%.

PDM VARIATIONS

PDM Similar to MIL Type CP53, with terminals on side. Example: PDM4-S5

PDMT (CP54) With terminals on top. To order: add T after PDM. Example: PDMT4-S5

PDMB (CP55) With terminals on the bottom. To order add B after PDM. Example: PDMB4-S5.



Catalog Number	Cap. in UF	Size in Inches Length	Width	Height
PDM SINGLE-CAPACITOR UNITS				
400 Volts DC Working				
PDM4-S5	.05	1 13/16	1	3/4
PDM4-P1	.1	1 13/16	1	3/4
PDM4-P25	.25	1 13/16	1	3/4
PDM4-P5	.5	1 13/16	1	13/16
PDM4-1	1.0	2	1 3/4	15/16
PDM4-2	2.0	2	2	1 3/16*
600 Volts DC Working				
PDM6-S5	.05	1 13/16	1	3/4
PDM6-P1	.1	1 13/16	1	3/4
PDM6-P25	.25	1 13/16	1	3/4
PDM6-P5	.5	1 13/16	1	1
PDM6-1	1.0	2	1 3/4	1
PDM6-2	2.0	2	2	1 3/16*
1,000 Volts DC Working				
PDM10-S5	.05	1 13/16	1	3/4
PDM10-P1	.1	1 13/16	1	3/4
PDM10-P25	.25	1 13/16	1	13/16
PDM10-P5	.5	2	1 3/4	7/8
PDM10-1	1.0	2	2	1 1/8*
PDM DUAL-CAPACITOR UNITS				
400 Volts DC Working				
2PDM4-S5	.05-.05	1 13/16	1	3/4
2PDM4-P1	.1-.1	1 13/16	1	3/4
2PDM4-P25	.25-.25	1 13/16	1	1
2PDM4-P5	.5-.5	2	1 3/4	15/16
2PDM4-1	1.0-1.0	2	2	1 3/16*

Catalog Number	Cap. in UF	Size in Inches Length	Width	Height
PDM DUAL-CAPACITOR UNITS (continued)				
600 Volts DC Working				
2PDM6-S5	.05-.05	1 13/16	1	3/4
2PDM6-P1	.1-.1	1 13/16	1	3/4
2PDM6-P25	.25-.25	1 13/16	1	1
2PDM6-P5	.5-.5	2	1 3/4	15/16
2PDM6-1	1.0-1.0	2	2	1 15/16
1,000 Volts DC Working				
2PDM10-S5	.05-.05	1 13/16	1	3/4
2PDM10-P1	.1-.1	1 13/16	1	7/8
2PDM10-P25	.25-.25	2	1 3/4	7/8
2PDM10-P5	.5-.5	2	2	1 1/8*
PDM TRIPLE-CAPACITOR UNITS				
400 Volts DC Working				
3PDM4-P1	.1-.1-.1	1 13/16	1	13/16
3PDM4-P25	.25-.25-.25	2	1 3/4	7/8
3PDM4-P5	.5-.5-.5	2	2	1
600 Volts DC Working				
3PDM6-P1	.1-.1-.1	1 13/16	1	13/16
3PDM6-P25	.25-.25-.25	2	1 3/4	7/8
3PDM6-P5	.5-.5-.5	2	2	1
1,000 Volts DC Working				
3PDM10-P1	.1-.1-.1	2	1 3/4	7/8
3PDM10-P25	.25-.25-.25	2	2	1 1/8*

* Add 1/4" to Height for units with top or bottom terminals.

Type PLM High-Voltage Oil-Paper Capacitors (CP70 SERIES)

Section assembled in lacquer-finished terneplate case. Mineral-oil impregnated and filled. Ceramic terminal insulators with screw studs. Designed for heavy-duty continuous service. Fulfills the exacting requirements of power-supply and filter applications. Meets electrical requirements of MIL-C-25C. For higher voltage ratings and enginering data write to Sales Engineering Department.

PLM VARIATIONS

PLM Basic type similar to MIL Type CP70. Example: PLM6-P5.

PLMF Similar to CP70 with CP47F footed bracket. To order: add F after PLM. Example: PLMF6-P5.

PLMS Similar to CP70 with CP07S spade bracket. To order: Add S after PLM. Example: PLMS6-P5.

PLMU With universal mounting bracket. To order: add U after PLM. Example: PLMU6-P5.

PLMR With solder-lug MIL Type B terminals (furnished only through 2,000 VDCW rating). To order: add R after PLM. Example: PLMR6-P5.

Temperature Rating: −55°C. to +85°C.
Standard Tolerance: ±10%.

Catalog Number	Cap. in UF	Case Size in Inches Length	Width	Height
600 Volts DC Working				
PLM6-P5	.5	1 13/16	1 1/16	1 5/8
PLM6-1	1.0	1 13/16	1 1/16	1 5/8
PLM6-2	2.0	1 13/16	1 1/16	3 1/4
PLM6-3	3.0	1 13/16	1 1/16	4 3/4
PLM6-4	4.0	2 1/2	1 5/16	3 1/2
PLM6-5	5.0	2 1/2	1 5/16	4 1/4
PLM6-6	6.0	2 1/4	1 5/16	4 3/4
PLM6-8	8.0	3 3/4	1 1/4	4 1/4
PLM6-10	10.0	3 3/4	1 3/4	4
1,000 Volts DC Working				
PLM10-P1	.1	1 13/16	1 1/16	1 5/8
PLM10-P25	.25	1 13/16	1 1/16	1 5/8
PLM10-P5	.5	1 13/16	1 1/16	2 1/4
PLM10-1	1.0	1 13/16	1 1/16	2 7/8
PLM10-2	2.0	1 13/16	1 1/16	4 3/4
PLM10-3	3.0	2 1/2	1 5/16	4 1/4
PLM10-4	4.0	3 3/4	1 1/4	3 7/8
PLM10-5	5.0	3 3/4	1 1/4	4 3/4
PLM10-6	6.0	3 3/4	1 3/4	4

Catalog Number	Cap. in UF	Case Size in Inches Length	Width	Height
1,000 Volts DC Working (continued)				
PLM10-8	8.0	3 3/4	1 3/4	4 3/4
PLM10-10	10.0	3 3/4	2 1/4	4 3/4
PLM10-12	12.0	3 3/4	2 1/4	5 1/8
PLM10-15	15.0	3 3/4	3 5/16	4 3/4
1,500 Volts DC Working				
PLM15-P5	.5	1 13/16	1 1/16	2 7/8
PLM15-1	1.0	1 13/16	1 1/16	4 3/4
PLM15-2	2.0	2 1/2	1 5/16	4 3/4
PLM15-3	3.0	3 3/4	1 1/4	4 3/4
PLM15-4	4.0	3 3/4	1 3/4	4 1/4
PLM15-5	5.0	3 3/4	2 1/4	4 1/2
PLM15-6	6.0	3 3/4	2 1/4	4 3/4
PLM15-8	8.0	3 3/4	2 1/2	5 3/4
PLM15-10	10.0	3 3/4	3 5/16	5 1/2
PLM15-12	12.0	4 5/16	3 3/4	4 3/4
PLM15-15	15.0	4 5/16	3 3/4	6
2,000 Volts DC Working				
PLM20-P1	.1	1 13/16	1 1/16	2 1/4
PLM20-P25	.25	1 13/16	1 1/16	2 7/8
PLM20-P5	.5	1 13/16	1 1/16	3 7/8
PLM20-1	1.0	2 1/2	1 5/16	4 1/4
PLM20-2	2.0	3 3/4	1 1/4	4 3/4
PLM20-3	3.0	3 3/4	1 3/4	4 3/4
PLM20-4	4.0	3 3/4	2 1/4	5 1/8
PLM20-5	5.0	3 3/4	3 5/16	4 3/4
PLM20-6	6.0	3 3/4	3 5/16	5 1/2
PLM20-8	8.0	4 5/16	3 3/4	5 1/8

Catalog Number	Cap. in UF	Case Size in Inches Length	Width	Height
2,000 Volts DC Working (continued)				
PLM20-10	10.0	4 5/16	3 3/4	6 1/2
PLM20-12	12.0	4 5/16	3 3/4	7 1/2
2,500 Volts DC Working				
PLM25-P5	.5	2 1/2	1 5/16	3 7/8
PLM25-1	1.0	3 3/4	1 3/4	3 1/4
PLM25-2	2.0	3 3/4	2 1/4	4 3/4
PLM25-4	4.0	4 5/16	3 3/4	4 3/8
PLM25-10	10.0	4 5/16	3 3/4	8 1/2
3,000 Volts DC Working				
PLM30-1	.1	1 13/16	1 1/16	2 7/8
PLM30-P25	.25	2 1/2	1 5/16	3 1/2
PLM30-P5	.5	2 1/2	1 5/16	4 3/4
PLM30-1	1.0	3 3/4	2 1/4	4 1/2
PLM30-2	2.0	3 3/4	3 5/16	4 3/4
PLM30-4	4.0	4 5/16	3 3/4	6 1/2
4,000 Volts DC Working				
PLM40-P1	.1	3 3/4	2 1/4	2 3/4
PLM40-P25	.25	3 3/4	2 1/4	2 3/4
PLM40-P5	.5	3 3/4	2 1/4	4 3/4
PLM40-1	1.0	3 3/4	3 5/16	4 3/4
PLM40-2	2.0	4 5/16	3 3/4	6
PLM40-4	4.0	4 5/16	3 3/4	9 5/8
5,000 Volts DC Working				
PLM50-P5	.5	3 3/4	2 1/4	5 1/8
PLM50-1	1.0	4 5/16	3 3/4	5 1/8
PLM50-2	2.0	4 5/16	3 3/4	9 5/8

676

NYTRONICS INC.

AUTHORIZED DISTRIBUTORS

ACI ELECTRONICS
28 SOUTH MALL STREET
PLAINVIEW, L. I., N. Y. 11803
(516) 293-6630

ALLIED ELECTRONICS
2400 W. WASHINGTON BLVD.
CHICAGO, ILLINOIS 60612
(312) 421-2400

BELL INDUSTRIES
1070 O'BRIEN DRIVE
MENLO PARK, CALIFORNIA 94025
(415) 323-9431

BELL INDUSTRIES
306 E. ALONDRA BLVD.
GARDENA, CALIFORNIA 90247
(213) 321-5802

BELL INDUSTRIES
12410 S.E. 32nd STREET
BELLEVUE, WASHINGTON 98004
(206) 747-1515

CESCO ELECTRONICS
4050 JEAN TALON ST. WEST
MONTREAL 301, QUEBEC, CANADA
(514) 735-5511

CHARLES CLARK COMPANY
503-D PATTERSON ROAD
DAYTON, OHIO 45419
(513) 294-7337

CRAMER ELECTRONICS
85 WELLS AVENUE
NEWTON, MASSACHUSETTS 02159
(617) 969-7700

CRAMER/PENN. INC.
INDUSTRIAL CENTER
7300 ROUTE 130 NORTH
PENNSAUKEN, N. J. 08110
(609) 662-5061

FAIRMONT ELECTRONICS
35 SOUTH SERVICE ROAD
PLAINVIEW, N. Y. 11803
(516) 694-8200

FORT WAYNE ELECTRONICS
3606 EAST MAUMEE AVENUE
FORT WAYNE, INDIANA 46801
(219) 742-4346

GRAHAM ELECTRONICS
133 S. PENNSYLVANIA AVENUE
INDIANAPOLIS, INDIANA 46204
(317) 634-8486

HARVEY MINNESOTA
6969 S. WASHINGTON AVENUE
EDINA, MINNESOTA 55435
(612) 941-6060

HERBACH & RADEMAN
401 EAST ERIE AVENUE
PHILADELPHIA, PENNSYLVANIA 19134
(215) 426-1700

HI REL
20507 SOUTH BELSHAW AVENUE
CARSON, CALIFORNIA 90746
(213) 537-6500

JACO ELECTRONICS
195 ENGINEERS ROAD
HAUPPAUGE, L. I., N. Y. 11787
(516) 273-5981

LAKELAND ELECTRONICS
2451 BRICKVALE DRIVE
ARLINGTON HEIGHTS, ILL. 60007
(312) 595-1000

MILO ELECTRONICS
170 EILEEN WAY
SYOSSET, NEW YORK 11791
(516) 364-1400

NATIONAL ATLANTIC CORP.
50 EAST 42nd STREET
NEW YORK, NEW YORK 10017
(212) 697-2584

NEUMULLER GMBH
8 MUNCHEN 2
KARLSTRASSE 55, GERMANY
TEL. 592421

NEWARK ELECTRONICS
500 NORTH PULASKI ROAD
CHICAGO, ILLINOIS 60624
(312) 638-4411

NEWARK ELECTRONICS
303 MONROE AVENUE
KENILWORTH, N. J. 07033
(201) 272-8410

NORTHLAND ELECTRONICS
32708 WEST 8 MILE ROAD
FARMINGTON, MICHIGAN 48024
(313) 477-3200

PHILADELPHIA ELECT.
1225 VINE STREET
PHILADELPHIA, PENNSYLVANIA 19107
(215) 568-8288

RADIO ELECTRIC
1026 CROMWELL BRIDGE ROAD
BALTIMORE, MARYLAND 21201
(301) 823-0070

RADIO INC.
1000 SOUTH MAIN STREET
TULSA, OKLAHOMA 74119
(918) 587-9123

ROME ELECTRONICS
108-110 SPRING STREET
ROME, NEW YORK 13440
(315) 337-5400

SOLID STATE ELECT.
2343 MANANA DRIVE
DALLAS, TEXAS 75220
(214) 352-2601

STERLING ELECTRONICS
51 SPRING STREET
WATERTOWN, MASSACHUSETTS 02172
(617) 926-9720

TERMINAL ELECTRONICS
1463 PINEWOOD STREET
RAHWAY, N. J. 07065
(201) 381-5700

TEXAS INSTRUMENT SUPPLY
6000 DENTON DRIVE
DALLAS, TEXAS 75235
(214) 238-6811

WHOLESALE ELECT. SUPPLY
ROSS AT CENTRAL
DALLAS, TEXAS 75201
(214) 824-3001

Nytronics Components Group, Inc.
ORANGE STREET • DARLINGTON, SOUTH CAROLINA 29532 • (803) 393-5421

LEO A. MOREAU
PRESIDENT

April 11, 1974

Pat C. Smith, Esquire
State Auditor
P. O. Box 11333
Columbia, South Carolina 29211

Dear Mr. Smith:

I enjoyed meeting with you this morning. Enclosed are two complete copies of the Bond Proposal. The Accumulated Deficit wording on the balance sheet has been changed to Accumulated Earnings, per our discussion.

I have asked our auditing firm, "MAIN LAFRENTZ & COMPANY" to forward a copy of the certified audit direct to your attention. You should receive it early next week.

If I can provide any other data, or if you feel that it would be benefical for me to come to Columbia again, I will be happy to do so.

Thank you again for your consideration.

Truly,

Leo A. Moreau

Leo A. Moreau
President
NYTRONICS COMPONENTS GROUP, INC.

LAM/mh

NYTRONICS COMPONENTS GROUP, INC.

BALANCE SHEET

FEBRUARY 28, 1974

A S S E T S

Current assets		
Cash		$ 50,042
Accounts receivable (less allowance for doubtful accounts $53,024) - note 4		1,106,359
Inventories - note 4		
Finished goods	$ 632,177	
Work in process	408,644	
Raw material	449,773	1,490,594
Total current assets		2,646,995
Intercompany account with parent		119,220
Collateral deposit - note 4		200,000
Property, plant and equipment, at cost - note 4		
Land, buildings and improvements	627,611	
Machinery and equipment	2,526,479	
	3,154,090	
Less accumulated depreciation	(1,805,178)	1,348,912
Goodwill - note 3		2,571,433
		$6,886,560

L I A B I L I T I E S

Current liabilities		
Notes payable - note 4		$ 978,938
Current maturities of long-term debt - note 4		96,170
Accounts payable		234,851
Accrued liabilities		
Payroll		62,534
Payroll and other taxes		96,603
Other, including $61,194 accrued commissions		191,609
Total current liabilities		1,660,705
Long-term debt, less current portion - note 4		705,782
Shareholders' equity		
Capital stock, no par value; authorized and issued 1,000 shares	$ 1,000	
Additional paid-in capital	4,818,546	
Accumulated deficit	(299,473)	4,520,073
		$6,886,560

The financial statements and accompanying notes are subject to the accountants' opinion.

679

NYTRONICS COMPONENTS GROUP, INC.

STATEMENT OF INCOME

SEVEN MONTHS ENDED FEBRUARY 28, 1974

Sales	$3,712,657
Cost of sales	2,590,611
Gross profit	1,122,046
Selling, general and administrative expense	463,988
Amortization of goodwill	13,408
Operating income	644,650
Interest expense	6,137
Income before parent company transactions and income taxes	638,513
Allocated parent company expenses - note 2	568,466
	70,047
Provision for income taxes - note 2	39,000
Net income	$ 31,047

The financial statements and accompanying notes are subject to the accountants' opinion.

NYTRONICS COMPONENTS GROUP, INC.

NOTES TO FINANCIAL STATEMENTS

FEBRUARY 28, 1974

1. SUMMARY OF ACCOUNTING POLICIES

Inventories - Inventories are based on physical counts priced at the lower of cost (determined by gross profit and first-in, first-out method) or market.

Property, Plant and Equipment and Depreciation Policies - The provision for depreciation is computed principally on the straight-line method, over the following estimated useful lives:

Buildings	20 years
Building improvements	10 years
Machinery and equipment	5-10 years

Expenditures for maintenance and repairs are charged to operations as incurred. Betterments and renewals are capitalized. Fixed assets retired or sold are removed from the asset and accumulated depreciation accounts and gain or loss is reflected in operations.

Intangible Assets - Goodwill, representing the excess of purchase price of acquisitions (including acquisition costs) accounted for as "purchases" over the underlying book values, is being amortized over 40 years, except for the goodwill applicable to Sage Electronics Corporation (Sage) business, which is not being amortized because, in the opinion of management, there has been no diminution of value or evidence of limited life.

Pensions - The Company's employees are included in the parent's pension plan, and pension expense has been charged to operations in the amount of $9,100 for the seven months ended February 28, 1974.

Engineering, Research and Development - Engineering, research and development costs are charged to expense as incurred.

2. RELATIONSHIP WITH NYTRONICS, INC. (PARENT)

Organization and Basis of Statement Preparation

Nytronics Components Group, Inc. (the Company), formerly the Darlington Division of Nytronics, Inc. (Nytronics), was incorporated as a wholly owned subsidiary of Nytronics. Subsequently, on December 31, 1973, the net assets and business of Sage Electronics Corporation (Sage) were transferred to the Company which was given effect to at August 1, 1973. Both the corporations were wholly owned subsidiaries of Nytronics and were transferred under the pooling of interests concept of accounting (historical costs to Nytronics were transferred). Accordingly, the financial statements for

2. RELATIONSHIP WITH NYTRONICS, INC. (PARENT) -continued-

Organization and Basis of Statement Preparation -continued-

the seven months ended February 28, 1974 reflect the combined results of operations of Sage and the Darlington Division from August 1, 1973 to February 28, 1974.

Nytronics' Darlington Division was formed in 1970 by combining the capacitor business (purchased by Nytronics in 1968) and Nytronics' Inductor Division. This division was wholly owned by either Nytronics or a foreign subsidiary until transferred in 1972, to the Company for a note payable to Nytronics. This note was reduced prior to August 1, 1973 by transactions with Nytronics to a balance of $2,533,914, which was converted to additional paid-in capital subsequent to August 1, 1973.

Sage is a manufacturer of resistors and was purchased by Nytronics in 1970. During 1971, the operations of Sage were moved to the Darlington Plant. In respect to goodwill arising from the purchase of Capacitor and Sage, see note 3.

Conversion of Inter-Company Indebtedness

Effective August 1, 1973, the note payable to Nytronics, which arose from the purchase of the Darlington Division, was offset against the intercompany receivable and converted to additional paid-in capital in the amount of $2,533,914.

The intercompany receivable arose principally from cash advances from operations, and the proceeds of borrowings from commercial lenders, forwarded to Nytronics.

Income Taxes

Since acquisition, the Company is included with its parent and subsidiaries in filed consolidated federal income tax returns and has reported consolidated federal tax losses. Income taxes for the seven months ended February 28, 1974 have been provided as if the Company were to file separate returns. Federal income taxes payable of $39,000 have been deducted from the intercompany account with parent.

The consolidated tax return for the year ended August 1, 1970 has been examined and settled by the Internal Revenue Service. The return for the year ended July 31, 1971 is currently under examination.

During the period July, 1971 to July, 1972, when the Darlington Division was owned by a wholly owned foreign subsidiary of Nytronics, a federal foreign tax return was filed.

2. RELATIONSHIP WITH NYTRONICS, INC. (PARENT) -continued-

Income Taxes -continued-

Nytronics has agreed to indemnify the Company for federal or state income tax assessments, if any, which may result upon examination.

Parent Company Expense Allocation

Allocable corporate expenses consist of expenses incurred for the parent and its subsidiaries as a whole of $568,466, including interest of $77,766 on borrowing substantially advanced to the parent. These expenses were allocated on the basis of divisional profit contribution to Nytronics from its subsidiaries. Such expenses include corporate office, officers' salaries, travel and entertainment, certain professional fees, stockholder and bondholder expense, and interest on Nytronics' debt. Such allocations may or may not be representative of expenses which would have been incurred had the Company operated as an independent entity.

During the prior fiscal year, there were no corporate expenses allocated to the Company; however, allocations to Sage amounted to $228,000.

The Company, Nytronics and all its subsidiaries are jointly and severally obligated under continuing five year employment agreements with certain officers of the Company and Nytronics aggregating $225,000 per year.

3. GOODWILL

Goodwill, $2,571,433, representing the excess of Nytronics' purchase prices of acquisitions over the underlying book value, transferred to the Company (note 2) consists of:

a) Sage, $1,724,986, after reduction of $369,000 in 1970 reclassified to property, plant and equipment based upon the opinion of an independent appraiser.

b) Capacitor Division, $846,447, reduced by amortization of $13,408 in the seven months ended February 28, 1974.

For accounting policy, see note 1.

683

4. NOTES PAYABLE AND LONG-TERM DEBT

Notes payable and long-term debt at February 28, 1974, consist of the following:

Notes payable		
Revolving loan payable to Aetna Business Credit, Inc. (Aetna), 6% above the prime interest rate, secured by the accounts receivable of the Company		$778,938
Demand note payable to Aetna, 6% above prime interest rate, secured by the inventory of the Company		200,000
		$978,938
Long-term debt		
Promissory note payable to Aetna, 6% above prime interest rate, secured by the machinery and equipment of the Company, and payable in monthly installments of $4,583 plus interest	$275,000	
Mortgage note payable to Aetna, 6% above prime interest rate, secured by a second mortgage on the land, buildings and improvements	325,000	600,000
Mortgage note payable to Equitable Life Assurance Society, 5½%, secured by a first lien on the land, buildings and improvements, payable in quarterly principal and interest installments of $6,724		201,952
		801,952
Less: Portion due within one year		96,170
		$705,782

In February 1974, the Company entered into an agreement with Aetna to borrow up to $1,600,000. The proceeds of such borrowing were used to repay existing current indebtedness with A. J. Armstrong Co., to reduce advances from the Company's parent, for a collateral deposit with Aetna, and for working capital.

4. NOTES PAYABLE AND LONG-TERM DEBT -continued-

Under the terms of this agreement, the Company is required to maintain a cash collateral account with the lender of at least $200,000, with monthly payments to this account of $2,083 as long as the mortgage note is outstanding. Such payments do not reduce the indebtedness until maturity, but are netted against the loan in computing interest.

The terms of the agreement restrict the Company from making payments to its parent, which in the aggregate, exceed the net profits of the Company after provision for all taxes.

The parent company has guaranteed the indebtedness and the Company and an affiliate have cross-guaranteed their respective indebtedness to the lender. The Company will be released from its guarantee upon the repayment of the loan, and a payment, not to exceed $200,000, against any remaining affiliate's indebtedness to Aetna.

5. PROPOSED FINANCING

The Company is currently negotiating with Darlington municipal authorities for additional financing through the issuance of Industrial Development Bonds in the approximate amount of $2,500,000. Under the proposed arrangements the Company would transfer title of its Darlington plant to the County, and lease back its facilities under a long-term lease of approximately 25 years. The proceeds of the bond offering would be used to further equip and refurbish the Darlington facility and to repay existing mortgage loans.

Nytronics
Incl. [illegible] - [illegible]

Parent: Nytronics, Inc.

Subs: Sys. Electronics
Enviro. "
Nytronics Components Group, Inc. - Darlington

Darlington
Industrial; mfgs. & sells N. Eqpt. - [illegible], Kensington, Sanguell, etc.
55% Employer
- lowest 20% - 30% under prepaid expansion.

Bonds payable "sold from revenues generated by the industrial project" - Power of proposal (New Issue), page 2.

Bank issue - 2,500,000
- 25 years
- Int. 2.8 - 4.27%
- Sell to Keystone Fin. at 92

Investment
Audited eqpt - 9 months ending Feb. 28, 1990.
No data given to this eqpt
Refers eqpt to "financial Remarks" - last year.

Called Gardner - Sec. Pol Dept, Dr. Brown 7/25
- Asked what consideration given to funds by towns
- No real professional evaluation - called no Dr. Attorney.

(OVER)

Fig 6 - Cell diagram - Dubinsky

Reversal gesture carried on forward

figure.

Pd only to be arranged

- Movement at all to appear

- Subtlety required here given to only.

MAIN LAFRENTZ & CO.

CERTIFIED PUBLIC ACCOUNTANTS

OFFICES OR ASSOCIATED FIRMS
U.S.A., CANADA, MEXICO, SOUTH AMERICA
GREAT BRITAIN, EUROPE, MIDDLE EAST
AUSTRALIA, AFRICA

PACKARD BUILDING
PHILADELPHIA, PA. 19102
215 665-1300

April 16, 1974

Pat C. Smith, Esq.,
State Auditor
Room 205
Wade Hampton Office Building
Columbia, S. C. 29211

Dear Mr. Smith:

As instructed by Mr. Leo A. Moreau, we are forwarding our Report on examination of the financial statements of Nytronics Components Group, Inc. for the seven months ended February 28, 1974.

Very truly yours,

JOHN L. CONNELL
For MAIN LAFRENTZ & CO.

JLC:mmw
enc.

cc: L. Moreau
S. Ofrichter
F. Warburton

MAIN LAFRENTZ & CO.

CERTIFIED PUBLIC ACCOUNTANTS

OFFICES OR ASSOCIATED FIRMS
U.S.A., CANADA, MEXICO, SOUTH AMERICA
GREAT BRITAIN, EUROPE, MIDDLE EAST
AUSTRALIA, AFRICA

PACKARD BUILDING
PHILADELPHIA, PA. 19102
215 665-1300

April 10, 1974

Mr. Leo Moreau, President
Nytronics Components Group, Inc.
Orange Street
Darlington, South Carolina

Dear Leo:

We have completed our examination of Nytronics Components Group, Inc. as of February 28, 1974 and for the seven months then ended.

In regard to your inquiry as to the present status of our audit, we are currently in the final stages of drafting our report. We expect to deliver to you our final report sometime next week.

Sincerely,

John L. Connell
for Main Lafrentz & Co.

JLC:rm

NYTRONICS COMPONENTS GROUP, INC.

REPORT ON EXAMINATION

SEVEN MONTHS ENDED FEBRUARY 28, 1974

MAIN LAFRENTZ & CO.

NYTRONICS COMPONENTS GROUP, INC.

REPORT ON EXAMINATION

SEVEN MONTHS ENDED FEBRUARY 28, 1974

MAIN LAFRENTZ & CO.

CERTIFIED PUBLIC ACCOUNTANTS

PACKARD BUILDING

PHILADELPHIA, PA., 19102

691

MAIN LAFRENTZ & CO.

CERTIFIED PUBLIC ACCOUNTANTS

OFFICES OR ASSOCIATED FIRMS
U.S., CANADA, MEXICO, SOUTH AMERICA
GREAT BRITAIN, EUROPE, MIDDLE EAST
AUSTRALIA, AFRICA

PACKARD BUILDING
PHILADELPHIA, PA. 19102
215 665-1300

To Nytronics, Inc.

We have examined the balance sheet of Nytronics Components Group, Inc. as of February 28, 1974, and the related statements of income, stockholders' equity and changes in financial position for the seven months then ended. Our examination was made in accordance with generally accepted auditing standards, and accordingly included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

As set forth in note 2, the statement of income includes allocation of certain parent company expenses to the Company in the amount of $568,466, which represent allocated expenses applicable to the parent and its subsidiaries as a whole, and may or may not be representative of expenses which would have been incurred had the Company operated as an independent entity.

In our opinion, except for the effect of parent company allocations as noted in the preceding paragraph, such financial statements present fairly the financial position of Nytronics Components Group, Inc. at February 28, 1974, and the results of its operations and the changes in its financial position for the seven months then ended, in conformity with generally accepted accounting principles applied on a consistent basis except as set forth in the preceding paragraph.

Main Lafrentz + Co

Philadelphia, Pennsylvania
March 29, 1974

NYTRONICS COMPONENTS GROUP, INC.

BALANCE SHEET

FEBRUARY 28, 1974

A S S E T S

Current assets		
Cash		$ 50,042
Accounts receivable (less allowance for doubtful accounts $53,024) - note 4		1,106,359
Inventories - note 4		
Finished goods	$ 632,177	
Work in process	408,644	
Raw material	449,773	1,490,594
Total current assets		2,646,995
Intercompany account with parent		119,220
Collateral deposit - note 4		200,000
Property, plant and equipment, at cost - note 4		
Land, buildings and improvements	627,611	
Machinery and equipment	2,526,479	
	3,154,090	
Less accumulated depreciation	(1,805,178)	1,348,912
Goodwill - note 3		2,571,433
		$6,886,560

L I A B I L I T I E S

Current liabilities		
Notes payable - note 4		$ 978,938
Current maturities of long-term debt - note 4		96,170
Accounts payable		234,851
Accrued liabilities		
Payroll		62,534
Payroll and other taxes		96,603
Other, including $61,194 accrued commissions		191,609
Total current liabilities		1,660,705
Long-term debt, less current portion - note 4		705,782
Shareholders' equity		
Capital stock, no par value; authorized and issued 1,000 shares	$ 1,000	
Additional paid-in capital	4,818,546	
Accumulated deficit	(299,473)	4,520,073
		$6,886,560

The financial statements and accompanying notes are subject to the accountants' opinion.

NYTRONICS COMPONENTS GROUP, INC.

STATEMENT OF INCOME

SEVEN MONTHS ENDED FEBRUARY 28, 1974

Sales	$3,712,657
Cost of sales	2,590,611
Gross profit	1,122,046
Selling, general and administrative expense	463,988
Amortization of goodwill	13,408
Operating income	644,650
Interest expense	6,137
Income before parent company transactions and income taxes	638,513
Allocated parent company expenses - note 2	568,466
	70,047
Provision for income taxes - note 2	39,000
Net income	$ 31,047

The financial statements and accompanying notes are subject to the accountants' opinion.

NYTRONICS COMPONENTS GROUP, INC.

STATEMENT OF STOCKHOLDERS' EQUITY

SEVEN MONTHS ENDED FEBRUARY 28, 1974

	Common stock	Additional paid-in capital	Accumulated deficit	Total
Balance, August 1, 1973	$1,000	$ 49,000	$(194,693)	$ (144,693)
Adjustment to reflect acquisition of Nytronics' investment in Sage as of August 1, 1973 - note 2	-	2,235,632	(135,827)	2,099,805
Balance at beginning of period, as adjusted	1,000	2,284,632	(330,520)	1,955,112
Contribution to capital upon conversion of debt by parent - note 2	-	2,533,914	-	2,533,914
Net income	-	-	31,047	31,047
Balance, February 28, 1974	$1,000	$4,818,546	$(299,473)	$4,520,073

The financial statements and accompanying notes are subject to the accountants' opinion.

NYTRONICS COMPONENTS GROUP, INC.

STATEMENT OF CHANGES IN FINANCIAL POSITION

SEVEN MONTHS ENDED FEBRUARY 28, 1974

Working capital provided from	
Net income	$ 31,047
Add charges against earnings not affecting working capital	
Depreciation and amortization	132,514
Parent company transactions	
Allocated expenses	568,466
Income taxes	39,000
Working capital provided from operations	771,027
Proceeds from long-term borrowings	600,000
Parent company capital contributions upon conversion of net indebtedness	2,533,914
Total working capital provided	3,904,941
Working capital used for	
Net additions to property, plant and equipment	80,459
Collateral deposit with Aetna	200,000
Reduction of long-term debt	96,170
Net reduction of indebtedness to parent through capital contribution	2,533,914
Transfers to parent company	
Portion of Aetna loan proceeds, including interest	509,881
Other cash advances, net	236,948
Total working capital used	3,657,372
Increase in working capital	$ 247,569

Increase (decrease) in working capital consisted of:	
Cash	$ 8,421
Accounts receivable	118,142
Inventories	146,270
Notes payable	(180,758)
Current maturities of long-term debt	(80,647)
Accounts payable	57,801
Accrued liabilities	178,340
	$ 247,569

The financial statements and accompanying notes are subject to the accountants' opinion.

NYTRONICS COMPONENTS GROUP, INC.

NOTES TO FINANCIAL STATEMENTS

FEBRUARY 28, 1974

1. SUMMARY OF ACCOUNTING POLICIES

Inventories - Inventories are based on physical counts priced at the lower of cost (determined by gross profit and first-in, first-out method) or market.

Property, Plant and Equipment and Depreciation Policies - The provision for depreciation is computed principally on the straight-line method, over the following estimated useful lives:

Buildings	20 years
Building improvements	10 years
Machinery and equipment	5-10 years

Expenditures for maintenance and repairs are charged to operations as incurred. Betterments and renewals are capitalized. Fixed assets retired or sold are removed from the asset and accumulated depreciation accounts and gain or loss is reflected in operations.

Intangible Assets - Goodwill, representing the excess of purchase price of acquisitions (including acquisition costs) accounted for as "purchases" over the underlying book values, is being amortized over 40 years, except for the goodwill applicable to Sage Electronics Corporation (Sage) business, which is not being amortized because, in the opinion of management, there has been no diminution of value or evidence of limited life.

Pensions - The Company's employees are included in the parent's pension plan, and pension expense has been charged to operations in the amount of $9,100 for the seven months ended February 28, 1974.

Engineering, Research and Development - Engineering, research and development costs are charged to expense as incurred.

2. RELATIONSHIP WITH NYTRONICS, INC. (PARENT)

Organization and Basis of Statement Preparation

Nytronics Components Group, Inc. (the Company), formerly the Darlington Division of Nytronics, Inc. (Nytronics), was incorporated as a wholly owned subsidiary of Nytronics. Subsequently, on December 31, 1973, the net assets and business of Sage Electronics Corporation (Sage) were transferred to the Company which was given effect to at August 1, 1973. Both the corporations were wholly owned subsidiaries of Nytronics and were transferred under the pooling of interests concept of accounting (historical costs to Nytronics were transferred). Accordingly, the financial statements for

2. RELATIONSHIP WITH NYTRONICS, INC. (PARENT) -continued-

Organization and Basis of Statement Preparation -continued-

the seven months ended February 28, 1974 reflect the combined results of operations of Sage and the Darlington Division from August 1, 1973 to February 28, 1974.

Nytronics' Darlington Division was formed in 1970 by combining the capacitor business (purchased by Nytronics in 1968) and Nytronics' Inductor Division. This division was wholly owned by either Nytronics or a foreign subsidiary until transferred in 1972, to the Company for a note payable to Nytronics. This note was reduced prior to August 1, 1973 by transactions with Nytronics to a balance of $2,533,914, which was converted to additional paid-in capital subsequent to August 1, 1973.

Sage is a manufacturer of resistors and was purchased by Nytronics in 1970. During 1971, the operations of Sage were moved to the Darlington Plant. In respect to goodwill arising from the purchase of Capacitor and Sage, see note 3.

Conversion of Inter-Company Indebtedness

Effective August 1, 1973, the note payable to Nytronics, which arose from the purchase of the Darlington Division, was offset against the intercompany receivable and converted to additional paid-in capital in the amount of $2,533,914.

The intercompany receivable arose principally from cash advances from operations, and the proceeds of borrowings from commercial lenders, forwarded to Nytronics.

Income Taxes

Since acquisition, the Company is included with its parent and subsidiaries in filed consolidated federal income tax returns and has reported consolidated federal tax losses. Income taxes for the seven months ended February 28, 1974 have been provided as if the Company were to file separate returns. Federal income taxes payable of $39,000 have been deducted from the intercompany account with parent.

The consolidated tax return for the year ended August 1, 1970 has been examined and settled by the Internal Revenue Service. The return for the year ended July 31, 1971 is currently under examination.

During the period July, 1971 to July, 1972, when the Darlington Division was owned by a wholly owned foreign subsidiary of Nytronics, a federal foreign tax return was filed.

2. RELATIONSHIP WITH NYTRONICS, INC. (PARENT) -continued-

Income Taxes -continued-

Nytronics has agreed to indemnify the Company for federal or state income tax assessments, if any, which may result upon examination.

Parent Company Expense Allocation

Allocable corporate expenses consist of expenses incurred for the parent and its subsidiaries as a whole of $568,466, including interest of $77,766 on borrowing substantially advanced to the parent. These expenses were allocated on the basis of divisional profit contribution to Nytronics from its subsidiaries. Such expenses include corporate office, officers' salaries, travel and entertainment, certain professional fees, stockholder and bondholder expense, and interest on Nytronics' debt. Such allocations may or may not be representative of expenses which would have been incurred had the Company operated as an independent entity.

During the prior fiscal year, there were no corporate expenses allocated to the Company; however, allocations to Sage amounted to $228,000.

The Company, Nytronics and all its subsidiaries are jointly and severally obligated under continuing five year employment agreements with certain officers of the Company and Nytronics aggregating $225,000 per year.

3. GOODWILL

Goodwill, $2,571,433, representing the excess of Nytronics' purchase prices of acquisitions over the underlying book value, transferred to the Company (note 2) consists of:

a) Sage, $1,724,986, after reduction of $369,000 in 1970 reclassified to property, plant and equipment based upon the opinion of an independent appraiser.

b) Capacitor Division, $846,447, reduced by amortization of $13,408 in the seven months ended February 28, 1974.

For accounting policy, see note 1.

699

4. NOTES PAYABLE AND LONG-TERM DEBT

Notes payable and long-term debt at February 28, 1974, consist of the following:

Notes payable		
Revolving loan payable to Aetna Business Credit, Inc. (Aetna), 6% above the prime interest rate, secured by the accounts receivable of the Company		$778,938
Demand note payable to Aetna, 6% above prime interest rate, secured by the inventory of the Company		200,000
		$978,938
Long-term debt		
Promissory note payable to Aetna, 6% above prime interest rate, secured by the machinery and equipment of the Company, and payable in monthly installments of $4,583 plus interest	$275,000	
Mortgage note payable to Aetna, 6% above prime interest rate, secured by a second mortgage on the land, buildings and improvements	325,000	600,000
Mortgage note payable to Equitable Life Assurance Society, 5½%, secured by a first lien on the land, buildings and improvements, payable in quarterly principal and interest installments of $6,724		201,952
		801,952
Less: Portion due within one year		96,170
		$705,782

In February 1974, the Company entered into an agreement with Aetna to borrow up to $1,600,000. The proceeds of such borrowing were used to repay existing current indebtedness with A. J. Armstrong Co., to reduce advances from the Company's parent, for a collateral deposit with Aetna, and for working capital.

700

4. NOTES PAYABLE AND LONG-TERM DEBT -continued-

Under the terms of this agreement, the Company is required to maintain a cash collateral account with the lender of at least $200,000, with monthly payments to this account of $2,083 as long as the mortgage note is outstanding. Such payments do not reduce the indebtedness until maturity, but are netted against the loan in computing interest.

The terms of the agreement restrict the Company from making payments to its parent, which in the aggregate, exceed the net profits of the Company after provision for all taxes.

The parent company has guaranteed the indebtedness and the Company and an affiliate have cross-guaranteed their respective indebtedness to the lender. The Company will be released from its guarantee upon the repayment of the loan, and a payment, not to exceed $200,000, against any remaining affiliate's indebtedness to Aetna.

5. PROPOSED FINANCING

The Company is currently negotiating with Darlington municipal authorities for additional financing through the issuance of Industrial Development Bonds in the approximate amount of $2,500,000. Under the proposed arrangements the Company would transfer title of its Darlington plant to the County, and lease back its facilities under a long-term lease of approximately 25 years. The proceeds of the bond offering would be used to further equip and refurbish the Darlington facility and to repay existing mortgage loans.

PROPOSED INDUSTRIAL REVENUE BOND ISSUE

BY DARLINGTON COUNTY, SOUTH CAROLINA

FOR

NYTRONICS COMPONENTS GROUP, INC.

NYTRONICS COMPONENTS GROUP, INC.

INDEX

Nytronics Components Group, Inc.
ORANGE STREET • DARLINGTON, SOUTH CAROLINA 29532 • (803) 393-5421

LEO A. MOREAU
PRESIDENT

February 18, 1974

LETTER OF ASKING

Presented to Darlington County Commissioners
On behalf of Nytronics Components Group, Inc.

Gentlemen:

Nytronics, Inc. has been doing business in Darlington County since March 1, 1968. During that period we have consolidated several divisions from other locations here in Darlington.

We have reached a point in our development where we need your assistance. We are requesting a bond issue to assist us in expanding and further renovating our plant.

This letter is our formal request for your approval to issue an Industrial Development Bond Offering.

Please enter the entire request on the minutes of your meeting to make the request a matter of public record.

We further ask for your tentative approval to our request and that you forward our request on to the State Budget Review Board for their examination and approval pursuant to the statute under which the bonds will be offered.

The entire proposal is contained in this packet.

Very Truly Yours,

Leo A Moreau

Leo A. Moreau
President
NYTRONICS COMPONENTS GROUP, INC.

LAM:bj

704

Nytronics Components Group, Inc.

SUBSIDIARY OF NYTRONICS, INC.
ORANGE STREET, DARLINGTON, S. C. 29532

TEL. (803) 393-5421

THE COMPANY

Nytronics Components Group, Inc. is a diversified manufacturer of electronic components. The major product lines consist of power resistors, film capacitors, paper capacitors, ceramic capacitors, inductors, chokes, and delay lines. The company has been successfully manufacturing these products since 1940.

Since 1970 the company has consolidated several operating divisions in Darlington, South Carolina.

The company has been successful in achieving a financial turnaround and is currently producing a respectable return on investments.

Sage Electronics, Essex Electronics and Darlington Capacitor Division are all widely known in the component industry and form the nucleus of Nytronics Components Group, Inc.

Our customer base includes the major computer manufacturers, communications companies and many defense or military contractors. These customers include such names as I.B.M., Burroughs, Control Data Corporation, Honeywell, G. E., R.C.A., Collins Radio, Philco Ford, Raytheon, Mohawk Data, etc.

Approximately 35-40% of our total sales are through industrial electronic distributors. An additional 10% is sold out of the country.

The entire electronics industry is currently enjoying a very healthy economy.

The company currently employs 550 people in Darlington, South Carolina and has a payroll of over $2,548,000 a year in this county.

A large portion of the capital raised will be used to develope approximately 200-260 new jobs in Darlington County over a two and one half year period.

At current labor and salary rates (which will undoubtedly increase) this increase in work force will add up to $1,186,000 in increased payroll. This will bring our total payroll up to $3,734,000 per year in Darlington County.

The company has its corporate office at Orange Street, Darlington, South Carolina 29532. (Telephone 803-393-5421).

DESCRIPTION OF BOND ISSUE

It is proposed that Darlington County would issue its industrial development revenue bonds pursuant to Section 14-399.21, et seq. of the Code of Laws of South Carolina for the purpose of further equipping and refurbishing the existing industrial plant owned in Darlington by Nytronics Components Group, Inc. (the Company). The bonds would be payable solely from revenues generated by the industrial project and secured by a mortgage on the same and would never constitute or give rise to a pecuniary liability of Darlington County or a charge against its general credit or taxing powers.

The bond issue will be for a term of twenty-five years and bear interest at a rate of approximately 8% which would be paid semi-annually.

The County would secure the bonds by mortgaging the real estate conveyed to it by the Company and the equipment acquired with the proceeds from the bonds. The mortgaged property would be leased to the Company for a term coincident with the term of the bonds and this lease would require that all insurance and maintenance of the leased property be either paid for or accomplished by the Company. Additionally, the Company would agree to make payments in lieu of taxes to Darlington County and all other taxing authorities in an amount equal to the tax which would have been paid if the industrial project were not owned by the County.

The Company is a wholly owned subsidiary of Nytronics, Inc., which is a holding company comprised of several firms in the electronics field. Heretofore the Company has forwarded most of its cash to its parent company on a monthly basis, however, the bond underwriters have required and the parent company has agreed that the Company will accumulate in excess of $530,000 within the framework of the Darlington company as additional working capital and maintain its cash position at that level. The parent company will covenant that it will not withdraw money from the Company if to do so would cause a reduction in that corporations's cash below the aforesaid level.

The Company will have an option to purchase the industrial facility at the time all bonds are paid for $1.00.

All documentation will be prepared by bond counsel selected by the underwriter and containing such other covenants and requirements as are required in industrial revenue bond financing to make the same acceptable to potential bond purchases and to enable bond counsel to give its opinion at closing that the bonds are legally issued and that the interest thereon is exempt from Federal Income Taxation.

NYTRONICS COMPONENTS GROUP, INC.

MANUFACTURING SERVICES PLAN

(Utilization of Proceeds)

SUMMARY

Inductor Department	$151,399.00
Capacitor Department	$597,850.00
Resistor Department	$141,066.00
Leasehold (Property) Improvements	$640,400.00
Proposed New Metallized Film Capacitor Department	$526,445.00
Mortgage Retirement	$527,840.00
GRAND TOTAL:	$2,585,000.00

NYTRONICS COMPONENTS GROUP, INC.

MANUFACTURING SERVICES PLAN

INDUCTOR DEPARTMENT

1.	Lattice Winding Machines (10) Geo. Stevens-Model 225AM or equal	$ 11,870.00
2.	Universal Winding Machines (10) Geo. Stevens-Model 220 or equal	8,040.00
3.	Automatic Turret Winding Machines (2) Coil Winding Equipment Co.-Model WK or equal	19,394.00
4.	Automatic Lead Wire Soldering Machine (2) Nytronics Design or Equal	15,000.00
5.	Ceramic Sleeve Test Equipment (3) Hewlett-Packard-Model No. 4342A or equal	5,095.00
6.	Automatic Sleeve Sorting Mechanism for (2) Item # 5 - Nytronics Design or equal	10,000.00
7.	Molding Molds Powder (3) Hull Corp. or equal	18,000.00
8.	Molding Preform Machine (1) Hull Corp.	9,000.00
9.	Molding Hi-Frequency Machine-Preforms (1) W. T. La Rose & Assoc. Inc.	2,500.00
10.	Molding Liquid-Hydraulic System (1) Using Gerotor Pump	3,000.00
11.	Molding Liquid-Hydraulic Press (2) Nytronics Design	5,000.00
12.	Molding Liquid-Molds (10) Nytronics Design	15,000.00
13.	Molding Liquid-Resin Mixer & (1) Dispenser Kenics	6,000.00
14.	Fluidized Bed (1) Badalex or equal	12,000.00
15.	Thermal Shock Chamber & CO^2 (1) Tenney Engineering Inc.	11,500.00
	GRAND TOTAL	$151,399.00

709

MANUFACTURING SERVICES PLAN

CAPACITOR DEPARTMENT

1.	Winding Machines - Kroessler (30) Upgrade and Convert to Automatic Operation	$ 181,350.00
2.	Automatic Lead Wire Attaching (11) Machines - Midland Engineering	182,600.00
3.	Test Equipment - Hi-Potential-Automatic (1) Industrial Instruments or equal	2,000.00
4.	Mylar Wrapping Machines (12) Midland Engineering or equal	114,000.00
5.	End Fill Machines-Epoxy Resin (2) Mylar Capacitors-Nytronics Design	27,000.00
6.	Hydraulic Flattening Press (1) 75 Ton-Dake Corp. or equal	1,200.00
7.	Fluidized Bed-Coating Ceramics (1) Kras Corp. or equal	14,000.00
8.	Printing Machine -Automatic (1) Markem Corporation	4,000.00
9.	Winding Machines-.0008 Metallized Film (2) Fribourg Rep. By Associated Winding	65,000.00
10.	Resin Storage Cold Tank-Recirculated (1) Refrigerated Anti-Freeze-Nytronics	1,500.00
11.	Impregnation Material Heater (1) Sterlco Unit By Sterling Inc.	2,200.00
12.	Winding-Hydraulic Controlled By (1) Hydraulic Pumping System using Gerotor Pump	3,000.00
	GRAND TOTAL	$ 597,850.00

710

MANUFACTURING SERVICES PLAN

RESISTOR DEPARTMENT

1.	Winding Machine - Speedwinder (1) Hicksville Machine Co. or equal	$ 7,440.00
2.	Strip Winding Machines (2) Nytronics Design	10,000.00
3.	Winding Machine Controls (14) Electronic Counters Inc. or Equal	9,100.00
4.	Test Equipment-Resistance Digital (2) E. S. I. Models 1700 & 1705 Combined	3,100.00
5.	New Coating Heads & Pots-Coaters (4) Designed by Nytronics	5,700.00
6.	Screen Separator Machine-Ceramic (1) Material-Ramps Mfg. Co. or equal	2,151.00
7.	Mixer Blender Machine-Ceramic (1) Clearfield Machine Co. or Equal	5,575.00
8.	Extruder-Machine by (1) The Benndit Co.	25,000.00
9.	Kiln -Ceramic Material (1) Pereny Equipment Co.	18,000.00
10.	Cut-Off Machine- Diamond Wheels (1) Do ALL Company	15,000.00
11.	Tumbling Machine (6) Tumb-L-Matic-J. R. Nielsen Co.	15,000.00
12.	Centerless Grinder (1) Cincinnati Milacron Co.	25,000.00
	TOTAL	$141,066.00

711

NYTRONICS COMPONENTS GROUP, INC.

MANUFACTURING SERVICES PLAN

FACTORY - LEASE HOLD IMPROVEMENTS

1.	Air Compressor- Used (1) American Air Compressor Co. (Installed)	$ 14,700.00
2.	Air Conditioners 200 Ton (4) Trance Co. or equal	280,000.00
3.	Roof - Skylights-Mac Millan Roofing Co.	11,700.00
	Roof Deck Repairs	18,300.00
	Roof Perimeter	25,000.00
	Roof Tiedown	15,000.00
4.	Parking Lot - Level & Blacktop R. B. Pond Construction Co. or equal	25,000.00
5.	Road to Rear of Plant R. B. Pond Construction Co. or equal	15,000.00
6.	Building Repairs - Brick Openings	10,000.00
7.	Building Repairs - Windows Replace	3,000.00
8.	Building Repairs - Point Up	7,000.00
9.	Building Repairs - Paint	45,000.00
10.	Building Repairs - Add Rest Rooms (4)	15,000.00
11.	Building Repairs - Main Power Switches (2)	8,000.00
12.	Building Repairs - Heating 3rd Floor	2,500.00
13.	Building Repairs - Heating 4th Floor	5,000.00
14.	Building Repairs - Dry Sprinklers-Etch House	3,200.00
15.	Building Repairs - Dry Sprinklers-Boiler House	2,500.00
16.	Building Repairs - Remove Chimney	25,000.00
	NOTE-- Items 6 to 16- General Contractor or equal	
	TOTAL	$530,900.00

712

MANUFACTURING SERVICES PLAN

FACTORY - LEASE HOLD IMPROVEMENTS

17.	New Steel Fire Escapes (2)	$ 8,500.00
18.	Prepare Etch House - Interior Beams-Walls, Floor Etc. For Ceramic Core Production	25,000.00
19.	Etch House - Main Wiring-Disconnect Switches-Load Centers Etc.	15,000.00
20.	Etch House - Install Flourescent Lights Wiring - Circuit Breakers, Etc.	7,500.00
21.	Etch House - Install Water System & Drains Piping-Valves, Etc. for Ceramic Powder Mix	5,000.00
22.	Etch House - Install Air conditioning System Compressor-Air Handler, Duct Work Carrier Air Conditioning System or equal	42,500.00
23.	Etch House - Install Heating (Electric)	5,000.00
24.	Maintenance Equipment- General Tools, Etc.	1,000.00
	TOTAL	$109,500.00
		530,900.00
	GRAND TOTAL	$640,400.00

713

NYTRONICS COMPONENTS GROUP, INC.

MANUFACTURING SERVICES PLAN

METALLIZED FILM - CAPACITOR DEPARTMENT

1.	Winding Machines-Kroessler (25) Upgrade & Convert to Automatic Operation	$ 156,525.00
2.	Test-Capacitance Bridge & Standards (2) Bruel & Kjoer-General Radio or equal	5,280.00
3.	Bake Oven-Heat Shrink (1) Geo. Koch & Sons or equal	5,330.00
4.	Metallized Spray & Trim System (3) Spray guns by Metco or equal	78,240.00
5.	Automatic Lead Wire Attaching (6) Machines-Midland Engineering	98,480.00
6.	Sort-Clearing & Capacitance Test (3) Machine-Nytronics Design or equal	63,480.00
7.	Coating Machine-Epoxy Coating (3) Application-Nytronics Design or equal	63,240.00
8.	Printing Machine-Automatic (3) Markem Corporation	13,480.00
9.	Test-Capacitance Bridge & Standards (3) Bruel & Kjoer-General Radio or equal	10,440.00
10.	Packing Room Benches-Lights-Tape Machine	1,300.00
11.	Shipping Room Benches-Lights-Etc.	650.00
12.	Air Handlers & Ducts (2) For Air Conditioners	20,000.00
13.	Electric Power -Disconnect Switches-Control Panels Under- writers Laboratories Approved Equipment	10,000.00
	GRAND TOTAL	$ 526,445.00

714

NYTRONICS COMPONENTS GROUP, INC.

MANUFACTURING SERVICES PLAN

RETIREMENT OF MORTGAGE

Equitable Life Assurance Society of the United States	$202,840.00
AEtna Business Credit, Inc.	$325,000.00
GRAND TOTAL:	$527,840.00

715

NYTRONICS COMPONENTS GROUP, INC.
FOR 6 MONTHS ENDED 2-3-74

Exhibit A
Year to date

	This Year		
	Actual	% of Sales	Last Year
Net Sales	3,111,603	100.0	2,654,393
Cost of Sales			
Material	622,521	20.0	531,234
Labor	742,297	23.9	847,914
Mfgr. Overhead	712,186	22.8	299,817
Depreciation	96,171	3.1	95,769
Total	2,173,175	69.8	1,774,734
Gross Profit	938,428	30.2	879,659
Expenses:			
Selling	234,619	7.6	215,351
Divisional G & A	159,174	5.1	131,599
Corporate G & A	--	--	--
Total Expenses	393,793	12.7	346,950
Operating Profit	544,635	17.5	532,709
Interest Expense	5,712	.2	48,560
Other (Income) Expense, Net	(500)	--	(34,427)
Income (Loss) From Operations	539,423	17.3	518,576
Goodwill Amortiz.	11,620	.3	11,620
Income (Loss) Before F.I.T.	527,803	17.0	506,956
Federal Income Taxes	-		
Net Income (Loss)	527,803	17.0	506,956

Exhibit B

NYTRONICS COMPONENTS GROUP, INC.
CONSOLIDATED COMPARATIVE STATEMENT OF INCOME
FOR 5 WEEKS ENDED 2-3-74

	This Year		
	Actual	% of Sales	Last Year
Net Sales	642,067	100.0	565,072
Cost of Sales			
Material	134,715	21.0	93,231
Labor	149,883	23.3	177,070
Mfgr. Overhead	148,622	23.2	104,626
Depreciation	16,028	2.5	15,962
Total	449,248	70.0	390,889
Gross Profit	192,819	30.0	174,183
Expenses:			
Selling	45,410	7.1	46,663
Divisional G & A	34,507	5.3	25,192
Corporate G & A	--	--	--
Total Expenses	79,917	12.4	71,855
Operating Profit	112,902	17.6	102,328
Interest Expense	943	.2	--
Other (Income) Expense, Net	(4)	-	8,202
Income (Loss) From Operations	111,963	17.4	94,126
Goodwill Amortiz.	2,234	.3	2,234
Income (Loss) Before F.I.T.	109,729	17.1	91,892
Federal Income Taxes	-		-
Net Income (Loss)	109,729	17.1	91,892

Exhibit C

NYTRONICS COMPONENTS GROUP, INC.
CONSOLIDATED BALANCE SHEET
As at 2-3-74

ASSETS	
Current Assets:	
Cash	8,064
Accounts Receivable - Trade (Net)	1,116,620
Accounts Receivable - Other	
Inventories	1,491,437
Prepaid Expenses	3,156
Total Current Assets	2,619,277
Property, Plant and Equipment:	
Land, Building and Improvements	615,166
Machinery and Equipment	2,520,142
	3,135,308
Less Accumulated Depreciation	1,782,243
Net	1,353,065
Assets Held For Sale	
Deferred Charges	
Excess of Cost over Book Value of Net Assets of Acquired Business	1,284,359
Total	5,256,701

LIABILITIES & SHAREHOLDERS' EQUITY	
Current Liabilities:	
Notes Payable	677,604
Current Portion of Long Term Debt	15,951
Accounts Payable	268,321
Accrued Liabilities	423,353
Accrued Income Taxes	15,868
Total Current Liabilities	1,401,097
Long Term Debt	189,895
Reserves	
Stockholders' Equity	
Capital Stock	1,000
Capital Surplus	3,529,684
Accumulated Earnings	135,025
Total Equity	3,665,709
Total	5,256,701

Nytronics Components Group, Inc.

SUBSIDIARY OF NYTRONICS, INC.
ORANGE STREET, DARLINGTON, S. C. 29532

TEL. (803) 393-5421

Nytronics Components Group, Inc., in Darlington, S. C., is in the Electronic Components business. This means that we produce some of the critical building blocks which go into making any electronic device. These include such things as computers, pocket calculators, ignition systems for automobiles, ground-to-air communication systems, heart pacers, mobile radios, color televisions, and, in fact, just about any piece of equipment which plugs into an outlet or uses batteries. These electronic components, produced by Nytronics Components Group, Inc., are analagous to the nuts and bolts used in building an automobile, without them a car could not be built; similarly, electronic equipment could not be built without using components similar to those made by Nytronics Components Group, Inc. The following describes each major component in more detail.

Capacitors

A capacitor is an energy storage device. It is similar in some ways to a battery in that the battery stores chemical energy and releases this energy over some period of time in performing some useful function. The capacitor, on the other hand, stores electrical energy and releases this energy nearly instantaneously and, as with the battery, performs some useful electrical function.

In simpliest terms, a capacitor consists of two metal plates separated by some electrically insulating material called a dielectric. The electrical energy is stored in this dielectric and released, usually over a brief span of time. Most power supplies which plug into a common AC outlet require the use of a capacitor in their circuitry in order to produce DC current.

If one were to open the back of a General Electric color television set, one would most probably find a Nytronics Components Group, Inc. Capacitor being used to protect the set against excessive current surges such as might occur if a power line was struck by lightening. Looking inside an IBM computer, one would find hundreds of Nytronics Capacitors serving their critical electronic control function. The Nytronics Components Group, Inc. Capacitor in these applications are as essential as the spark plugs in your automobile.

Nytronics Components Group, Inc. makes capacitors with three major dielectrics. One of these utilizes the well-known DuPont Mylar film. Other films such as polystyrene and polypropylene are also used. A second dielectric is that consisting of an oil-impregnated kraft paper. The third major dielectric is a ceramic. Each of these dielectrics has its own specific characteristics, such as change in capacitance with varying temperature, which are useful to circuit design engineers.

In the never-ending search for smaller sized components, capacitors using extremely thin metal plates, in order to reduce size, have been developed. These capacitor styles are called metallized and represent an ever-expanding market wherein Nytronics might measureably increase its sales dollars.

Resistors

Nytronics Components Group, Inc., in Darlington, is a major producer of power wirewound resistors. A resistor is an electronic component whose primary function is to limit electrical current in any electrical/electronic circuit. The resistor is analagous to a valve in a water system which limits the rate of flow of water dependent on how much the valve is opened. The resistor limits the "flow" of electrical current. In performing its function the resistor, unlike the capacitor, does not store energy. Rather, a resistor usually dissipates energy in the form of heat as it performs its current limiting function.

For simple, comparative purposes a resistor is a special alloy wire of varying lengths and diameters. This resistance wire is customarily wound on a cylindrical ceramic form in much the same way that a spring is wound. This ceramic is designed in such a way as to dissipate the high temperature generated by the resistor.

Nytronics Components Group, Inc. produces two major resistor styles. The one has a special high temperature silicone coating to protect the resistance wire during handling and application. The second is completely surrounded with a massive aluminum heat sink which serves to transmit the heat from the resistor to a metallic chassis to which the resistor is firmly attached. Both of these styles are stringently controlled by military specifications to which Nytronics Components Group, Inc. and it competitors are qualified.

720

There are numerous other commercial and military style resistors which Nytronics Components Group, Inc. could produce if the economics of such production could be justified.

All of these resistors are fixed resistors in that they are available in specific, unchangeable resistance values. Nytronics Components Group, Inc. also makes a variable resistor wherein the resistance value can be changed over some limited range.

Applications for Nytronics Components Group, Inc. Resistors are limitless. For example, most IBM computers utilize a variable Nytronics Components Group, Inc. Resistor in controlling the electrical current needed within the computer. A missile made by Martin-Marietta utilizes a custom-made Nytronics Components Group, Inc. Resistor in a very critical application. In this instance, failure of the Nytronics Resistor could well cause a missile to destroy an unintentional target.

Nytronics Components Group, Inc. Resistors are manufactured under stringent quality control and the resultant reliability of these resistors is unsurpassed in the industry.

Inductors

The third major component manufactured by Nytronics Components Group, Inc., in Darlington, is the inductor. An inductor is a magnetic device. Similar to the resistor, the inductor's primary function in an electrical/electronics circuit is that of controlling electrical current. However, instead of controlling the current by means of resistance, the inductor controls current magnetically. This magnetic control is difficult to explain in any simple fashion. Unlike the capacitor and resistor, the inductor lends itself poorly to any well-known analogy.

In essence, the inductor is constructed using copper wire of varying diameters which has been coated with a thin insulating material. This copper wire is wound around a small cylinder with greatly varying numbers of turns and, subsequently, molded in a rigid plastic to protect it from harsh environments.

721

Nytronics Components Group, Inc. Inductors have gained widespread acceptance by all major electronic manufacturers. For example, Nytronics Components Group, Inc. Inductors are used in heart pacers which maintain a steady heart beat for heart patients. In this instance, the inductor serves primarily to prevent extraneous radio signals from influencing the pacemakers' action. Nytronics Components Group, Inc. Inductors are a critical part of the Boeing 747 inertial navigation system. For those who fly this aircraft, the importance of reliability in these components goes without saying. As in the case of resistors, Nytronics Components Group, Inc. also makes variable inductors.

722

Nytronics, Inc.
105 MADISON AVENUE, NEW YORK, N.Y. 10016

May 23, 1974

Mr. Pat Smith
South Carolina State Auditor
South Carolina State House
Columbia, South Carolina

212/889-8166

Dear Mr. Smith:

I wish to express my appreciation for the courtesies rendered to me and our group yesterday in your office in Columbia, and to say that I very much enjoyed meeting with you, the Governor and the rest of the committee.

We are proceeding with the appraisals as outlined in the committee meeting and will submit them to you as soon as possible. We are also investigating the feasibility of insuring this bond issue. With regard to this, I would greatly appreciate receiving from you a copy of the prospectus of the recent bond issue that you mentioned had been insured. This might be of help to us in getting further information. Should you not have a copy of this available, if you could advise me who the underwriter was so that I could contact him, it would be helpful.

In response to your request, I wish to reaffirm that the parent company, Nytronics, Inc., will guarantee this bond issue of its subsidiary, Nytronics Components, Inc.

Again, I wish to thank you for your efforts in our behalf and to express appreciation for the atmosphere of cooperation that was evident during the entire conference.

Very truly yours,

Bernard M. Goldsmith
Chairman of the Board

BMG:rm

Called Goldsmith 5/30 re above.
(called to ask)

Otto Wolke.

Vanadore chrolan & Stumie
Mantei

Rob.

Pat,

The company which insured the Edgefield industrial revenue bond is Commercial Loan Insurance Corp., a subsidiary of Mortgage Guaranty Insurance Corp. Both are located in Milwaukee.

Tom Hutcheson mail information concerning the firm and the insurance to Mr. Goldsmith today. He sent copies to you.

WTP

Wilson - 393-5221 Darlington

Goldsmith - 212/889-8166 N.Y.

Exhibit #15

Page 1 of 2

Nytronics Components Group
4 Year Forecast
1975 - 1976
Slowdown in Economy

1975 - 5% below 1974
1976 - 10% below 1975

No provision for Metallized Products

	1ST QTR 1975	2nd QTR 1975	3rd QTR 1975	4th QTR 1975	TOTAL 1975	1ST QTR 1976	2nd QTR 1976	3rd QTR 1976	4th QTR 1976	TOTAL 1976
NET SALES										
Darlington Products	1437.7	1699.1	1699.1	1700.1	6536.0	1293.6	1528.8	1528.8	1531.7	5882.4
MATERIAL	287.5	334.7	327.9	321.3	1274.5	241.9	293.4	287.4	282.7	1105.9
%	20%	19.7%	19.3%	18.9%	19.5%	18.7%	19.2%	18.8%	18.5%	18.8%
Labor	309.1	331.3	302.4	241.8	1184.1	185.3	212.5	212.5	171.7	823.5
%	21.5%	19.5%	17.8%	14.2%	18.3%	14.3%	13.9%	13.9%	13.9%	14.0%
Overhead	404.7	456.6	460.2	457.9	1779.4	457.9	460.2	460.2	460.2	1838.5
%	28.1%	26.8%	27.1%	26.9%	27.2%	35.4%	30.1%	30.1%	30.1%	31.3%
Total Cost of Sales	1001.3	1122.6	1090.5	1021.0	4235.0	885.1	966.1	960.1	955.6	3767.9
%	69.6%	66%	64.2%	60.1%	65%	68.4%	63.2%	62.8%	62.4%	64%
Gross Profit	436.4	576.5	608.6	679.1	2301.6	408.5	562.7	568.7	575.6	2114.5
%	30.4%	33.9%	35.8%	39.9%	35%	31.5%	36.8%	37.2%	37.6%	35.9%
Selling Expense	109.3	133.8	133.8	133.8	510.7	114.3	135.0	135.0	135.0	519.3
%	7.6%	7.9%	7.9%	7.9%	7.8%	8.8%	8.8%	8.8%	9.0%	8.8%
G/A	106.7	126.1	126.1	126.5	485.4	106.7	126.1	126.1	126.5	485.4
%	7.4%	7.4%	7.4%	7.4%	7.4%	8.2%	8.2%	8.2%	8.5%	8.3%
Total Overhead	216.0	259.9	259.9	260.3	996.1	221.0	261.1	261.1	261.5	1004.7
%	15%	15.3%	15.3%	15.3%	15.2%	17.1%	17.1%	17.1%	17.5%	17.1%
Division Contribution	220.4	316.6	348.7	397.5	1284.5	187.5	301.6	307.6	314.1	1109.8
%	15.3%	18.6%	20.5%	23.5%	19.6%	14.4%	19.7%	20.1%	20.5%	18.9%

Exhibit 16

Page 2 of 2

NYTRONICS COMPONENTS GROUP
4 YEAR FORECAST CONTD
1977 - 1978
SLOWDOWN IN ECONOMY

DANLINGER PRODUCTS SAME AS 1975
METALLIZED - 50% OF ORIGINAL FORECAST

	1ST QTR 1977	2nd QTR 1977	3rd QTR 1977	4th QTR 1977	TOTAL 1977	1ST QTR 1978	2nd QTR 1978	3rd QTR 1978	4th QTR 1978	1978 TOTAL
NET SALES										
ALL products EXCEPT METALLIZED	12936	15275	15275	15338	58824	12936	15275	15275	15338	58824
COST OF SALES	8289	9795	9795	9700	37679	8289	9795	9795	9700	37679
%	64.0%	64.0%	64.0%	64.0%	64.0%	64.0%	64.0%	64.0%	64.0%	64.0%
GROSS PROFIT	4647	5480	5480	5538	21145	4647	5480	5480	5538	21145
%	35.9%	35.9%	35.9%	36.0%	35.9%	35.9%	35.9%	35.9%	36.0%	35.9%
SELLING EXP + G/A	2191	2590	2590	2590	9961	2191	2590	2590	2590	9961
DIV. CONT -	2456	2890	2890	2948	11184	2456	2890	2890	2890	11184
METALLIZED NET SALES	2250	3000	3750	4125	13125	4500	4875	5250	5625	20250
COST OF SALES	1215	1620	2025	2227	7087	2430	2632	2835	3038	10935
MAT 22% L 16% O/H 16%	54%	54%	54%	54%	54%	54%	54%	54%	54%	54%
G/A + S/E = 10%	225	300	375	413	1313	450	488	525	562	2025
DIV. CONTR.	810	1080	1350	1485	4725	1620	1755	1890	2025	7290
%										
Combined										
NET SALES	15186	18275	19025	19463	71949	17436	20150	20525	20963	79074
COST OF SALES	9504	11415	11820	12027	44766	10719	12427	12630	12838	48614
%	62.6%	62.5%	62.1%	61.8%	62.2%	61.5%	61.7%	61.5%	61.2%	61.5%
GROSS PROFIT	5682	6860	7205	7436	27183	6717	7723	7895	8125	30460
%	37.4%	37.5%	37.9%	38.2%	37.8%	38.5%	38.3%	38.5%	38.8%	38.5%
SELLING EXP + G/A	2416	2890	2965	3003	11274	2641	3078	3115	3152	11986
%	15.9%	15.8%	15.6%	15.4%	15.7%	15.1%	15.3%	15.2%	15.0%	15.2%
DIVISION CONTRIBUTION	3266	3970	4240	4433	15909	4076	4645	4780	4973	18474
%	21.5%	21.7%	22.3%	22.8%	22.1%	23.4%	23%	23.3%	23.7%	23.4%

Hytronics Components Group Inc.
4 Year Forecast
1975-1976
Slowdown Economy

Cash Flow

Exhibit #17

Page 1 of 2

	1ST Qtr 1975	2ND Qtr 1975	3RD Qtr 1975	4TH Qtr 1975	Total 1975	1ST Qtr 1976	2ND Qtr 1976	3RD Qtr 1976	4TH Qtr 1976	Total 1976
Divisional Contribution	420.4	316.6	348.7	398.8	1484.5	386.5	301.6	307.6	314.1	1109.8
Depreciation	69.6	69.7	69.7	69.7	278.7	89.3	89.3	89.4	89.4	357.4
Cash Flow	490.0	386.3	418.4	468.5	1763.2	475.8	390.9	397.0	403.5	1467.2
Capital Expenditures	(378.2)	(270.9)	(410.0)	(169.8)	(1228.9)	(187.2)	(137.0)	(93.5)	(108.0)	(525.7)
Debt Principal Payments. Bond Issue	(66.0)	(66.0)	(66.0)	(66.0)	(264.0)	(66.0)	(66.0)	(66.0)	(66.0)	(264.0)
Inventories	10.0	10.0	10.0	10.0	40.0	15.0	20.0	20.0	20.0	75.0
Accounts Receivable	5.0	5.0	5.0	5.0	20.0	10.0	10.0	10.0	10.0	40.0
Accounts Payable Accrued Liabilities	5.0	5.0	5.0	(10.0)	5.0	(5.0)	(5.0)	(5.0)	(5.0)	(20.0)
Inter Company Payables	(240.0)	(240.0)	(240.0)	(240.0)	(960.0)	(240.0)	(240.0)	(240.0)	(240.0)	(960.0)
Cash Funds Available from Operations	(344.2)	(170.6)	(277.6)	(7.3)	(777.7)	(197.4)	(77.1)	24.5	14.5	(185.5)

Exhibit 7.15

Nytronics Components Group Inc
4 Year Forecast
1977-1978
Slowdown Economy

Cash Flow
Report

	1st Qtr 1977	2nd Qtr 1977	3rd Qtr 1977	4th Qtr 1977	Total 1977	1st Qtr 1978	2nd Qtr 1978	3rd Qtr 1978	4th Qtr 1978	Total 1978
Divisional Contribution	376.6	397.0	422.0	443.3	1590.9	407.6	464.5	470.0	497.3	1844.4
Depreciation	95.2	95.3	95.3	95.3	381.1	87.3	87.3	87.4	87.4	349.4
Cash Flow	471.8	492.3	519.3	538.6	1971.0	494.9	551.8	565.4	584.7	2196.8
Capital Expenditures	(38.5)	(1.0)	(1.9)	–	(41.4)	–	–	–	–	–
Debt Principal Payments										
Bond Issue	(66.0)	(66.0)	(66.0)	(66.0)	(264.0)	(66.0)	(66.0)	(66.0)	(66.0)	(264.0)
AETNA	(100.0)	(100.0)	(100.0)	(100.0)	(400.0)	(100.0)	(100.0)	(100.0)	(100.0)	(400.0)
Inventories	(15.0)	(15.0)	(15.0)	(15.0)	(60.0)	(20.0)	(20.0)	(20.0)	(20.0)	(80.0)
Accounts Receivable	10.0	10.0	10.0	10.0	40.0	5.0	5.0	5.0	5.0	20.0
Accounts Payable Accrued Liabilities	(5.0)	(5.0)	(5.0)	(5.0)	(20.0)	(5.0)	(10.0)	(10.0)	(10.0)	(35.0)
Inter Company Payables	(240.0)	(240.0)	(240.0)	(240.0)	(960.0)	(240.0)	(240.0)	(240.0)	(240.0)	(960.0)
Cash Funds Available from Operations	(37.7)	75.3	101.4	117.6	266.6	68.9	120.8	134.4	153.7	477.8

EXHIBIT XIII
MAY 7, 1974

STATE OF SOUTH CAROLINA

COUNTY OF DARLINGTON

TO THE STATE BUDGET AND CONTROL BOARD OF SOUTH CAROLINA	)	P E T I T I O N

The Petition of Darlington County Commission (the County Board) respectfully shows:

1. The County Board is the governing body of Darlington County, South Carolina, as established by law, and such is the County Board referred to in Act No. 103 of the 1967 Acts of the South Carolina General Assembly, as amended (the Act).

2. The Act authorizes and empowers the County Board, if it shall comply with the provisions set forth in the Act, to acquire land, buildings, equipment, machinery and other improvements deemed necessary, suitable and useful by any manufacturing or processing enterprise, and in connection with such acquisition, to enlarge, improve and expand the same; to lease the same; and to finance the acquisition, enlargement, improvement and expansion of the same through the issuance of bonds payable from and secured by a pledge of the revenues to be derived from the leasing of such land, buildings, equipment and machinery and other improvements.

3. The County Board has agreed with Nytronics Components Group, Inc., a Delaware corporation (the Lessee) that the County Board will undertake to finance the acquisition, improvement and further equipping by the Lessee of the existing electronic components manufacturing facilities located in Darlington County, South Carolina, through the issuance of Industrial Revenue Bonds pursuant to the Act. In this connection, the County Board has agreed to purchase from the Lessee the Lessee's said existing facilities for a consideration equal to the balance due (estimated at $528,000) upon the mortgages now encumbering the said existing facilities and to finance

EXHIBIT XIII
MAY 7, 1974

STATE OF SOUTH CAROLINA

COUNTY OF DARLINGTON

TO THE STATE BUDGET AND CONTROL BOARD OF SOUTH CAROLINA	)	P E T I T I O N

The Petition of Darlington County Commission (the County Board) respectfully shows:

1. The County Board is the governing body of Darlington County, South Carolina, as established by law, and such is the County Board referred to in Act No. 103 of the 1967 Acts of the South Carolina General Assembly, as amended (the Act).

2. The Act authorizes and empowers the County Board, if it shall comply with the provisions set forth in the Act, to acquire land, buildings, equipment, machinery and other improvements deemed necessary, suitable and useful by any manufacturing or processing enterprise, and in connection with such acquisition, to enlarge, improve and expand the same; to lease the same; and to finance the acquisition, enlargement, improvement and expansion of the same through the issuance of bonds payable from and secured by a pledge of the revenues to be derived from the leasing of such land, buildings, equipment and machinery and other improvements.

3. The County Board has agreed with Nytronics Components Group, Inc., a Delaware corporation (the Lessee) that the County Board will undertake to finance the acquisition, improvement and further equipping by the Lessee of the existing electronic components manufacturing facilities located in Darlington County, South Carolina, through the issuance of Industrial Revenue Bonds pursuant to the Act. In this connection, the County Board has agreed to purchase from the Lessee the Lessee's said existing facilities for a consideration equal to the balance due (estimated at $528,000) upon the mortgages now encumbering the said existing facilities and to finance

the improvement and further equipping of the said existing facilities; and the County Board has agreed to issue Two Million Eight Hundred Seventy-Five Thousand Dollars ($2,875,000) Darlington County, South Carolina, First Mortgage Industrial Revenue Bonds, Series 1974 (Nytronics Components Group, Inc. - Lessee) (the Bonds) pursuant to the Act in order to finance the said acquisition, improvement and further equipping of the said facilities which, when completed will continue as an electronic components manufacturing plant (the 7 1/2 acre plant site and the buildings, improvements, machinery and equipment constituting the said facilities, as improved and expanded, being hereinafter referred to as the Project).

4. The County Board is advised by the Lessee that the cost of acquiring the said facilities and the cost of improving and further equipping the same will amount to approximately $2,585,000; and, that therefore, in order to finance the acquisition, improvement and further equipping of the Project by the Lessee, including the costs and charges incident to the issuance and sale of the Bonds, it will be necessary that the County Board issue the Bonds in the principal amount of $2,875,000.

5. The Lessee's said existing facilities now employ 550 persons. When completed, the Project will employ approximately 200 persons in addition to those now employed.

6. For the reasons above set forth and hereafter disclosed, the County Board has found:

(a) The proposed Project will subserve the purposes of the Act.

(b) By reason of undertaking the Project no pecuniary liability will result to the County nor will there be a charge against its general credit or taxing power.

(c) The proposed Lease between the County Board and the Lessee will unconditionally obligate the Lessee to pay rent in an amount adequate to provide for the principal and interest payments on the Bonds which will bear interest at a rate to be

established of approximately 8% per annum and will be payable in substantially equal, successive, annual installments of approximately $280,000, including principal and semi-annual interest, beginning in 1975 through 2000.

(d) The Lessee has arranged for the sale of the Bonds to Wood Brothers-Peebles Investment, Inc., Memphis, Tennessee, without the creation of any reserve and, therefore, it is unnecessary to establish reserve funds for the payment of such principal and interest. The bonds will be sold at an 8% discount for $2,645,000.

(e) The terms of the Lease will require the Lessee to carry proper insurance and to pay all costs of maintaining the Project in good repair.

7. Pursuant to Section 14 of the Act, the County Board sets forth the following information:

(a) The Project consists of the existing electronic components manufacturing facilities owned and operated by the Lessee in Darlington County, including the 7 1/2 acre plant site together with the improvements to be made thereto and the additional equipment to be installed therein and all of which constitute and will continue as facilities for the manufacture of electronic components.

(b) The Project, when completed, will provide employment for approximately 200 persons, in addition to the 550 persons now employed at the existing facilities. It is, therefore, believed that the Project will have an extremely beneficial effect upon the economy of the County and areas adjacent thereto.

(c) The cost of the entire Project will amount to approximately $2,875,000, including the cost of acquiring the said existing facilities, the proposed improvements and additional equipment and machinery, and all other expenses to be incurred in connection therewith.

8. The proposed Lease, will provide, among other things, the following:

(a) To finance the cost of the acquisition, improvement and further equipping of the Project, the County will issue

$2,875,000 Darlington County, South Carolina, First Mortgage Industrial Revenue Bonds, Series 1974 (Nytronics Components Group, Inc. - Lessee) (the Bonds). The Bonds will be secured by a pledge of the rents to be paid by the Lessee and will be further secured by a Trust Indenture, as authorized by Section 5 of the Act, to a bank yet to be named, as Trustee.

(b) The proceeds derived from the sale of the Bonds will be deposited with the Trustee and will be withdrawn on requisition of the Lessee and the County and applied solely for the payment of costs incident to the acquisition, improvement and further equipping of the Project, and the issuance of the Bonds.

(c) The Lease will contain a specific provision by which the Lessee will unconditionally agree to make payments to Darlington County, to any School District in Darlington County and to all other political units in which the Project is situated, in lieu of taxes, in such amounts as would result from taxes levied on the Project by Darlington County, by any such School District, and by said political units if the Project were owned by the Lessee, but with appropriate reductions similar to the tax reductions, if any, which would be afforded the Lessee were it the owner of the Project.

(d) The Lease will contain no provision imposing any pecuniary liability upon the County or which would create a charge upon its general credit or taxing power.

(e) The Lease will contain provisions which would provide for its amendment in order to make provision for the issuance of additional bonds under the conditions therein set forth and more fully set forth in the Indenture.

9. The proposed Trust Indenture will be in conventional form and constitute a forecloseable mortgage upon the Project. Included in the granting clause will be:

(a) All real property, equipment and machinery and interests therein, acquired or to be acquired for the Project.

(b) The right, title and interest of the County in the Lease.

(c) All rentals and revenues derived by the County under the Lease, except those payments to be made in lieu of taxes or by way of indemnification or attorneys fees.

The Indenture will make provision for the initial issuance of Two Million Eight Hundred Seventy-Five Thousand Dollars ($2,875,000) of Bonds to be secured thereunder. It will make provision for the issuance of additional bonds to the extent and in the manner to be set forth in the Indenture. It will provide for the payment and redemption of the Bonds, the establishment of a Bond Fund into which the proceeds of the rents payable by the Lessee are placed, and the use of said fund for the payment of the Bonds. It will impose upon the Lessee the obligation to pay, in addition to the moneys required for the payment of the principal and interest of the Bonds, all other costs and expenses resulting from the execution and delivery of the Indenture and the issuance of the Bonds pursuant thereto.

10. The proposed Lease and the proposed Trust Indenture will be in substantially the form heretofore used in the issuance of Industrial Revenue Bonds pursuant to the Act.

Upon the basis of the foregoing, the County Board respectfully prays:

That the State Budget and Control Board accept the filing of the Petition presented herewith and that it do, thereafter, and as soon as practicable, make its independent investigation of the Project and the terms and provisions of the Lease and the Indenture, as it deems advisable, and that thereafter, the said State Board make a finding that the proposed Project will promote the purpose of the Act and that it is reasonably anticipated to effect such result, and on the basis of such finding, that it does approve the Project, including changes in any details of the said financing as finally consummated which do not materially affect the said undertaking, and give published notice

of its approval in the manner set forth in Section 14 of the Act.

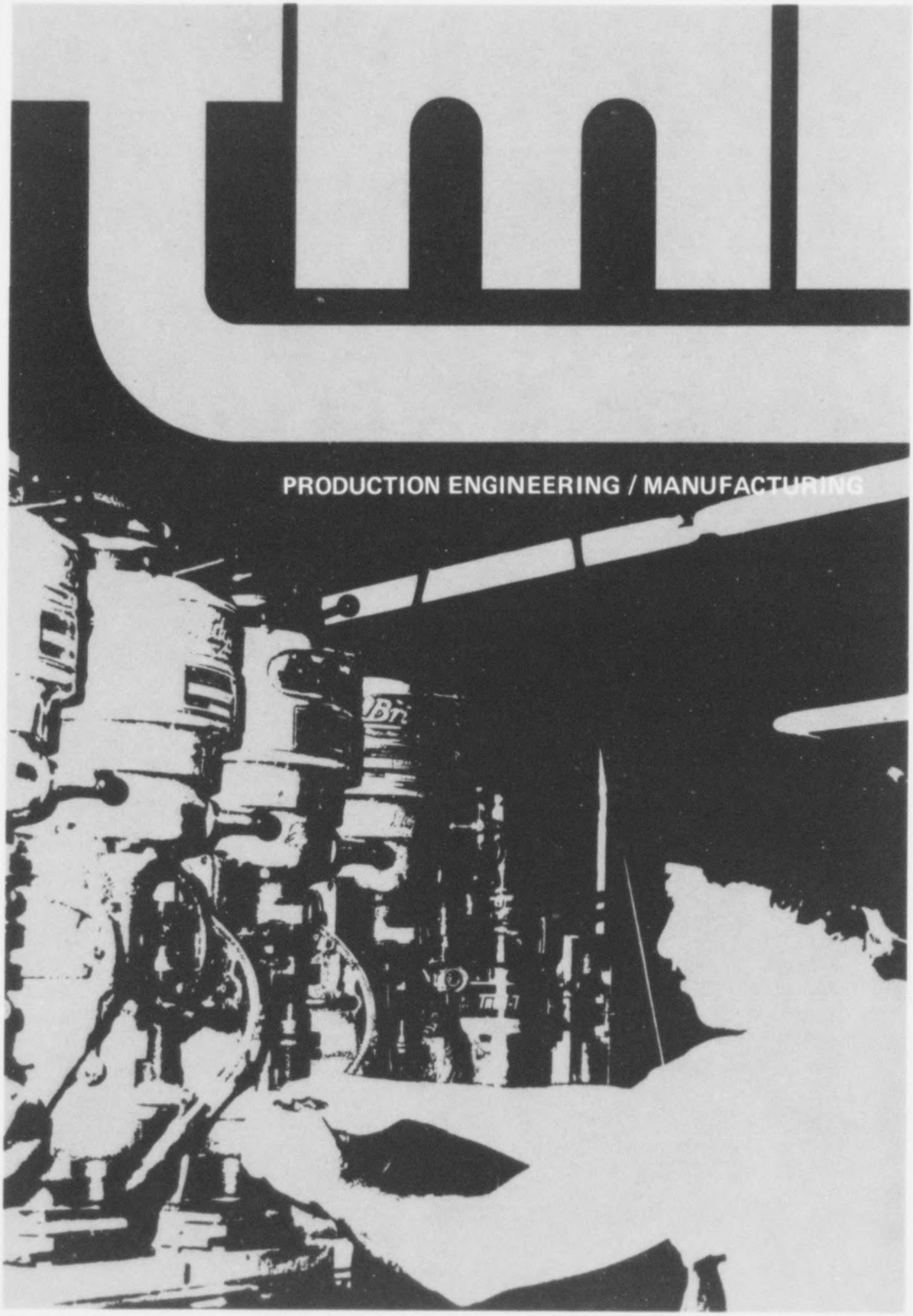
Respectfully submitted,

DARLINGTON COUNTY COMMISSION

(SEAL)

By Harold L. Hudson
Chairman

By Billie S. Norwood
Clerk



EQUIPMENT

PRODUCTION ENGINEERING / MANUFACTURING

EQUIPMENT LIST

NC MACHINING CENTERS

(Tape Controlled Numerical Positioning)

2 Edlund NL2 15 Automatic Tool Changer, Drilling and Milling Machine
4 Bridgeport Series #2 Tape Controlled, continuous path 3 dimensional drilling and milling

JIG BORING

(Separate Temperature Controlled Room)

1 Sip #2H Jig Bore
1 Moore #2 Jig Bore
1 Moore #1 Jig Bore
1 Bridgeport Mill with Optical Measurement System
1 #3 Moore Jig Bore

MILLING

1 Cincinnati #2M1 Horizontal Mills with Vertical Heads
1 Dufour #61 Horizontal Mill with Vertical Head
14 Bridgeport 1 HP Mills Model J
1 Bridgeport 1/2 HP Mill
7 Bridgeport 3-D Hydraulic Profile Mills
5 Nichols Production Mills
1 Cincinnati Toolmaster Vertical Mill
1 Pratt Whitney Profiling Mill
2 Precision Tilting Rotary Tables

BROACHING

5 Pioneer 3 Ton Surface Broach Vertical 24" Stroke Single Ram
1 Cincinnati 5 Ton Surface Broach Vertical 42" Stroke Single Ram
1 Cincinnati 10 Ton Surface Broach Vertical 54" Stroke Single Ram
1 Colonial 15 Ton Surface Broach Vertical 66" Stroke Single Ram
1 Cincinnati 5 Ton Surface Broach Vertical 42" Stroke Dual Ram
1 Cincinnati 5 Ton Surface Broach Vertical 54" Stroke Dual Ram

GRINDING

1 Gallmyer Livingston 36" Surface Grinder
1 Covel Surface Grinder
2 Boyer-Schultz Surface Grinders
1 Boyer-Schultz #1 Profile Grinder
1 Kwickway OD Grinder
1 Dumore Hand Grinder
6 Pedestal Grinders
1 Precise Hand Grinder
6 Bench Grinders
1 K.O. Lee Tool and ID grinder
3 Disc Grinders
1 Tool and Cutter Grinder
1 Carbide Grinder 7"
2 Leonard Carbide Grinder Lapping Machine
1 Sellers Drill Grinder Model 1C
1 Rankin 20" Model S Disc Grinder
1 Chop Saw CTD Model F-426 10 HP

LATHES

1 Ebosa Semi-Automatic Cam Operated Chucker with Threading Attachment
3 Kummer K-20 Semi-Automatic 2 Spindle Chucking Lathes
1 Cazeneuve 21" Tracer Lathe
1 Sheldon 13" Engine Lathe
2 Hardinge Chucking Lathes (one with threading attachment)
1 Devalliere 10" Tool Room Lathe
1 Logan 9" Lathe

DRILL PRESSES

5 Telco (with 12 and 17 spindle drivers) High Speed Drilling and Tapping Machines
2 W-K 6 Spindle Drill Presses
1 Delta 17" 4 Spindle Drill Press
2 Delta 2 Spindle Drill Presses
5 Speed Drill Presses
3 Walker-Turner Drill Presses
1 Edlund #2F15 Layout Drill Press
2 Dumore Sensitive Drill Presses
4 Floor Model 15" Drill Presses
3 Bench Model 16" Drill Presses

SHEET METAL EQUIPMENT

1 Wiedematic Numerical Controlled Warner-Swasey Type S1550 Turret Punch Press
1 Wiedematic Numerical Controlled Warner-Swasey Type S2550 Turret Punch Press
1 TPS-433 Wiedematic Tape Preparation System
1 Niagara A 3-1/2 Punch Press
2 Niagara A 2 Punch Presses
2 Niagara A 2-1/2 Punch Presses
2 Niagara AA 4-1/2 100 Ton OBI Press
1 Niagara A 3-1/2 60 Ton OBI Press
1 Consolidated 10 Ton OBI Press
3 Clearing #22T Punch Presses
1 Bliss 60 Ton Punch Press
1 Chicago 4' 16 Ga Press Brake
1 C P 450E 24" Riveter
1 L & S Precision Power Notch and Cut-off Shear
1 Niagara 12 Ga Power Shear
1 Pexto 36" Roll
1 Diacro #3 Finger Brake
1 Stock Straightener 18"

SPECIAL EQUIPMENT

1 Model 6BA (3 spindle) Lapping Machine with Pneumatic Down Pressure 26" dia
2 Electrical Discharge Machine's AEG Elotherm

HONING EQUIPMENT

1 Sunnen Precision Hone
1 Sunnen Hone Gage — accurate to 50 millionths

TEST EQUIPMENT

1 Lee Lab Hydraulic Test Stand 5000 PSI

MISCELLANEOUS

1	Sensitive Tapping Machine
1	Detecto Platform Scale
1	National Counting Scale
1	Tempo #1530 Electric Heat Treat Furnace
2	Acetylene Welding Sets
3	Belt Sanders
4	Air Compressors
2	Air Conditioners
1	Big Joe #14 Lift Truck
1	Buda Fork Lift Truck
1	Economy Lift Truck
2	Mobile Die Lifts
4	Rotary Tables
1	G.E. Electric Welder
2	Hartford Superspacers
1	Demagnetizer
1	Baron Degreaser
5	Tumble Debur Tanks
1	1-1/2' Vibrator Unit
1	2' Vibrator Unit
1	Bruning #120 Copyflex
2	Butterfly Die Filing Machines
2	Vapor Hone Machines
1	Polytite Skin Pack Machine
1	Dillon LW Universal Pull Tester
1	Flexowriter Friden Model 2303
2	Sandblast Machines Model 24 Uni-Hone
1	Clean Bench Pure Air Model 720B
1	Sandblast Machine Model 36 Uni-Hone

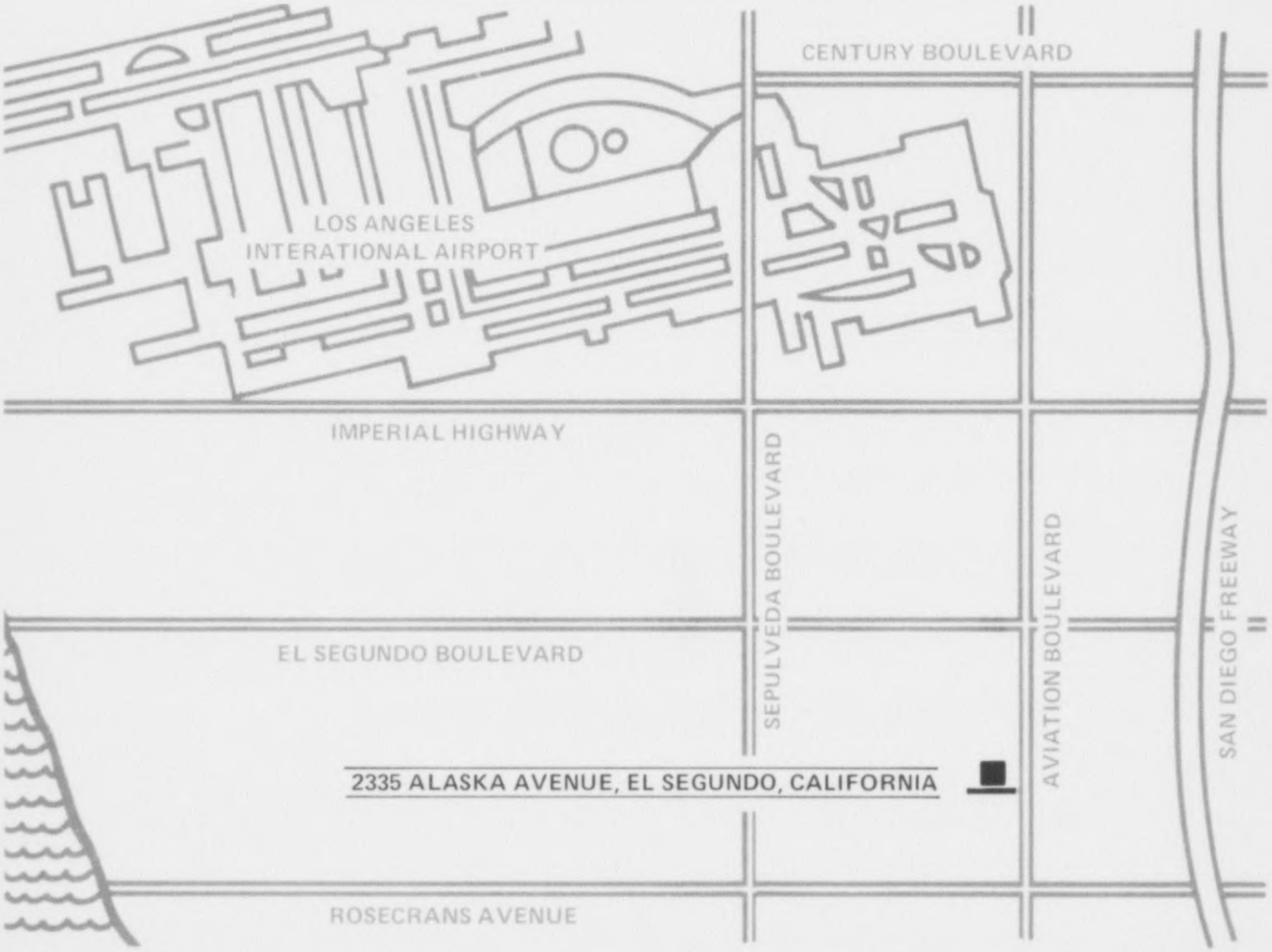
INSPECTION EQUIPMENT

1 – Cordax XYZ Axis Digital Readout Inspection Machine

Gage Blocks	4 – 84 pc sets
Set Rings	.1250 to 2.1250 dia
Cadillac Pla-Chek	48"
Jones & Lamson Comparator PC14	20 & 50 magnification
Scherr-Tumico Comparator	14"
Depth Micrometers	0 to 3"
Dial Indicators	.00005 and .001
Cleveland Roughness Meter	2 to 500 micro inch
Outside Micrometers	0 to 12"
Inside Micrometers	1-1/2 to 12"
Plug Gages	.032 to 2.063
Rockwell Hardness Tester	Model 4JR
Sine Plates	5" and 10" compound
Thread Ring Gages	4-40 to 2-3/4-16
Thread Snap Gages	1/4-20 to 1-5/8-12
Pratt & Whitney Super Micrometer	Model G-210
Granite Surface Plates	24" x 36" to 30" x 60"
Thread Plug Gages	0-80 to 3-12
Thread Wires	6 to 40 pitch
Vernier Height Gages	12" to 24"
Vernier Protractor	8" blade
Vernier Calipers	5" to 18"
Chatillon Spring Tester	0 to 25 lb
Angle Blocks	various
Parallels	various
"V" Blocks	various
Federal Electro Probe Amplifier	.00005
Air Gages	.00005
Dial Bore Gages	1/2 to 6"
Sheffield Shadowgraph	Model 2000
Surface Plate Squares	5" and 10"
Bench Centers	8" x 36"
5 – Micro-Rapid Micrometers	0' – 1"
4 – Brown-Sharpe Hite-Icators	12"
1 – Sheffield Air Flatness Gage	

ELECTRONIC EQUIPMENT

2	Type 545A Tektronix Oscilloscope
1	Type 535A Tektronix Oscilloscope
1	Type 304 Dumont Oscilloscope
3	Type CA Tektronix Pre-Amplifier
2	Type L Tektronix Pre-Amplifier
1	Type D Tektronix Pre-Amplifier
1	Type K Tektronix Pre-Amplifier
1	Type 650 A Hewlett Packard Oscillator
1	Type B14 Rutherford Pulse Generator
1	Type 150 Tektronix Square Wave Generator
1	Model 911 Weston Volt Meter
1	Model 931 Weston Milliamp Meter
1	Model K3 Leeds & Northrup Potentiometer
1	2430C Galvanometer Leeds & Northrup
1	Type 1650A General Radio Impedance Bridge
2	Type 130 Tektronix L C Meter
2	Type S-30 LC Calibration Standard
1	Type 532B Hewlett Packard Counter
1	RN3 General Radio Bridge
6	Model 4005R Power Design P/S
1	Model 5015A Power Design P/S
4	Model L3501 Universal P/S
2	Model 721A Hewlett Packard P/S
2	Model 260 Simpson Volt/ohm Meter
1	Model 261 Simpson Volt/ohm Meter
1	Type 195 RCA VTVM
1	Type 128 Tektronix Probe Power Supply
1	Type 575 Tektronix Transistor Curve Tracer
1	Type 680 Transistor Circuit Tester
1	Type 1531A General Radio Strobe
1	1-128 Vibration Meter
1	TC-23 Statham Temperature Chamber
6	Resistance and Capacitance Decade Box
1	Model KTE Kingsley Wire Marker (with 5 misc. letter sets)
1	Nelson Vacuum Chamber
1	DS1001 Autronic Ultrasonic Cleaner
2	1048B Weldmatic P/S
5	1032 Weldmatic Welding Head
1	1027 Weldmatic P/S
1	1037 Weldmatic Welding Head
1	Type 10 Ainsworth Direct Reading Scale (with 200S NBA weight)
1	Donner Wave Analyzer
1	Hewlett Packard Signal Generator 606A
1	Hewlett Packard 400A Vacuum Tube Voltmeter
1	John Fluke 871A Solid State Voltmeter



PRODUCTION ENGINEERING / MANUFACTURING

2335 ALASKA AVENUE, EL SEGUNDO, CALIFORNIA 90245, TELEPHONE 722-6363
TWX TMI ELSD 910-325-6613

THIS CASE MAY HAVE SOME OR ALL OF THE FOLLOWING DEFECTS WHICH MAY BE QUESTIONABLE WHEN READING. IN SPECIAL PROBLEM AREAS, THIS ROLL NOTE MAY BE REFILMED BEFORE THE DOCUMENT OR DOCUMENTS IN QUESTION.

1. PHOTOCOPY NOT CENTERED PROPERLY CUTTING OFF SOME OF THE INFORMATION.

2. DOCUMENTS ARE OF POOR LEGIBILITY AND MAY NOT PHOTOGRAPH WELL.

3. DOCUMENTS DAMAGED OR TORN BEFORE ARRIVING FOR FILMING.

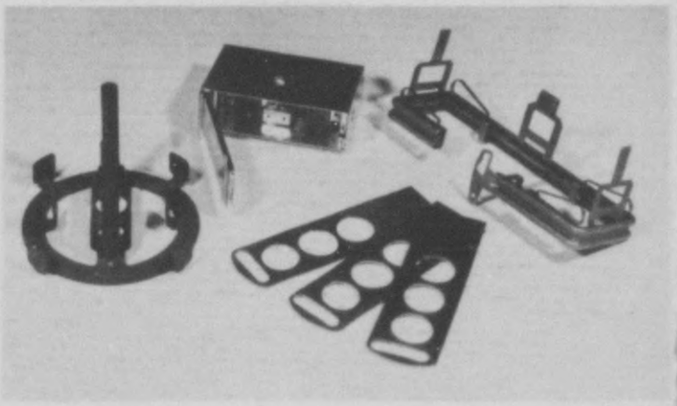
4. DOCUMENTS CONTAIN A DOUBLE-COPY IMAGE, THE UNDERLYING IMAGE IS IRRELEVENT TO THE READABLE INFORMATION.

5. OVERSIZED DOCUMENTS THAT COMPRISE TWO OR MORE FRAMES.

6. DOCUMENTS WITH GLUED INSERTS WHICH WERE OR COULD NOT BE REMOVED, INFORMATION MAY OR MAY NOT BE UNDER THE INSERT.

PRODUCTION ENGINEERING / MANUFACTURING

tmi



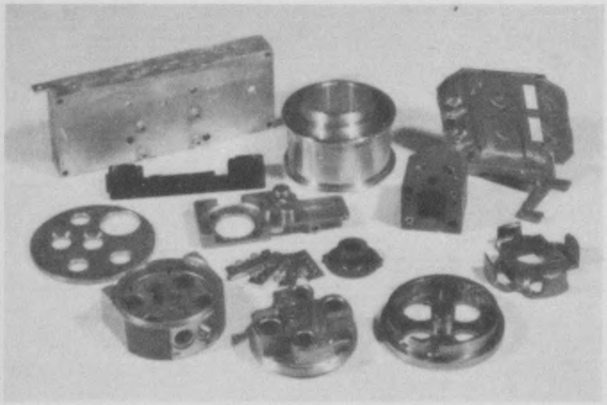
740

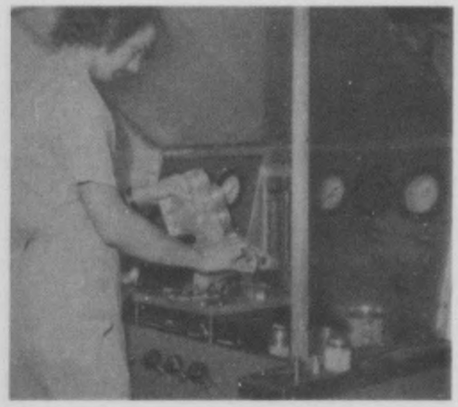
TOTAL IN-HOUSE CAPABILITY

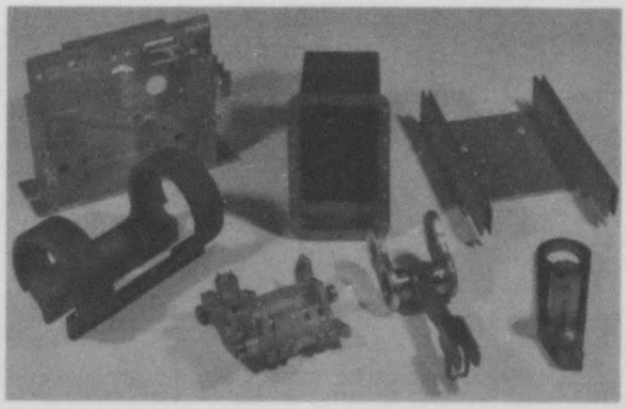
TMI is a production engineering, tooling, manufacturing and assembly company, that produces precision parts and assemblies for the Computer and Missile industries — at one facility.

The capability to perform all necessary production functions under one roof permits TMI a wider choice of techniques and procedures to manufacture your products — to your specifications — with maximum efficiency.

We have the production experience and plant capacity for high volume precision machining to short run sheet metal stampings and fabrication. Some parts we manufacture for the Computer industry include mounts, positioning arms, T blocks, carriages, coil caps, etc. — for the Missile industry, wings, fins, control surfaces, servo gear train assemblies, etc.







manufacturing

There are specially segregated areas in our plant for production assembling and testing of complicated mechanisms. We are experienced in assembly of Servo Mechanisms, Electro Mechanical assemblies, Hydraulic devices and precision Sheet Metal assemblies.

Our Jig Boring and Inspection Departments are located in separate temperature controlled rooms.

We are able to test anything we produce and if equipment is not available to properly test, we can design and build the necessary test equipment.

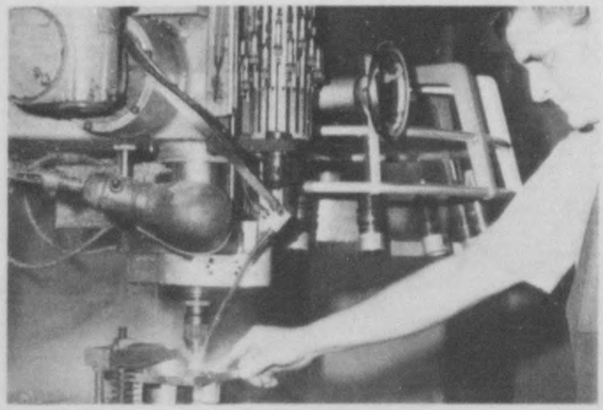
quality assurance

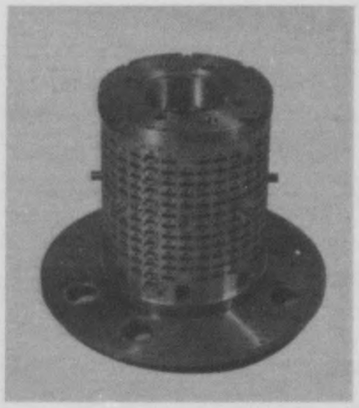
We have equipment to dimensionally inspect all parts and assemblies we produce. Our Q.C. department meets all requirements for U.S. Military specifications MIL-Q-9858 and MIL-C-45662.

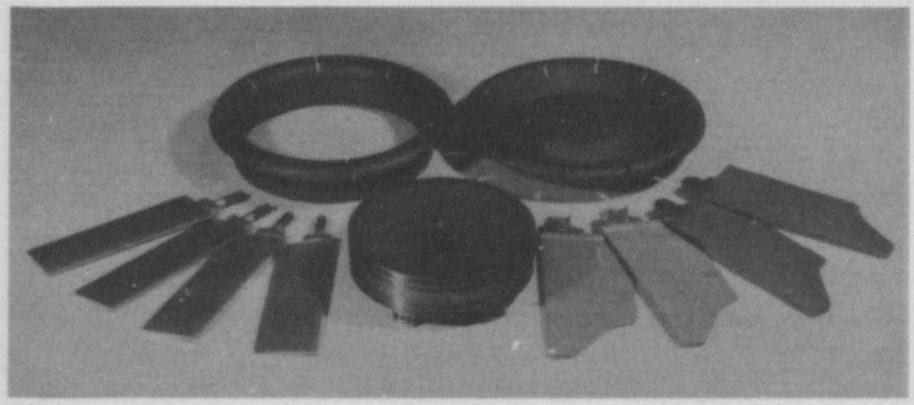
partial list of customers

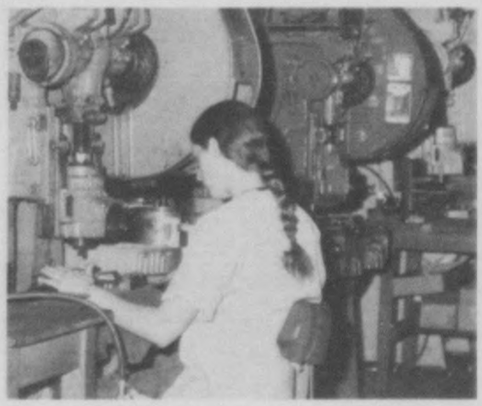
Aeronutronic
AiResearch
Ampex
Applied Magnetics Corp.
Autonetics
Collins Radio
Control Data Corporation
Hewlett Packard
Hughes Aircraft
IBM
Information Magnetics Corp.
Information Storage Systems
Litton Industries
Lockheed Aircraft Corp.
Memorex Corp.
NCR
Nortronics
RCA
Rockwell International
Stromberg — Datagraphix
Xerox

We invite you to visit our facility located in one of the prestige industrial parks adjacent to the Los Angeles International Airport. The TMI facility occupies a modern building of thirty thousand square feet which has sprinkler systems throughout.









PRODUCTION ENGINEERING

We believe it's very special at TMI. That unique ability to study a print, prototype or part and come up with the best possible way to manufacture it.

Production engineering is a people system. It takes men with long experience and a consummate knowledge of equipment potential. But it also takes talent – the talent to invent. To devise a procedure that's specific to that job. One that may never have been done before – but one that can reduce production steps, time and cost. And if it takes a specially designed tool to accomplish it, you have to be able to design and build that tool.

Whether it's a short simple run or a long and complicated one, production engineering is applied to all the jobs done at TMI. We have the people with the experience, knowledge and talent to make the difficult projects easy and the easy ones simple.

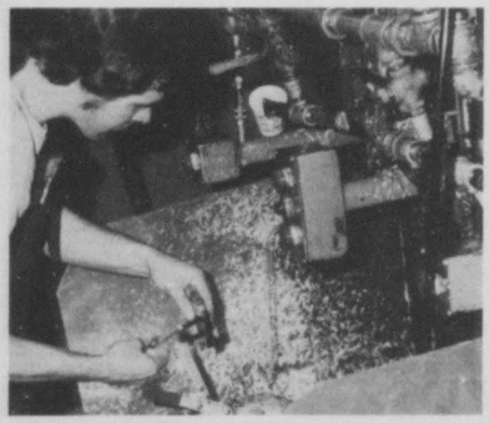
tooling

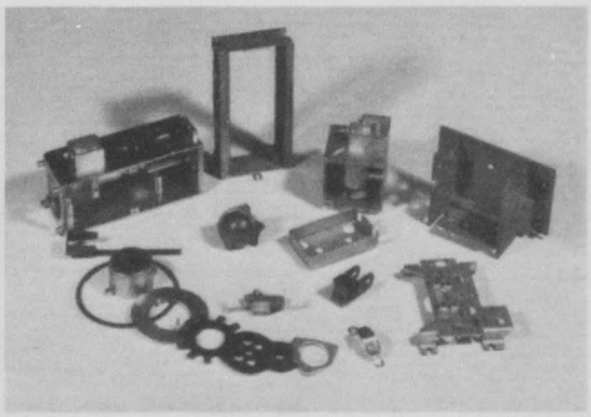
Our tooling specialists can build special tools to simplify production by reducing steps and insure exact repeatability. When necessary, we can design and build in plant, special machines to produce precision parts of difficult configuration in high volume.

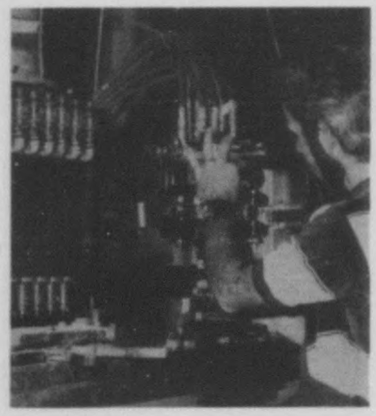
special equipment

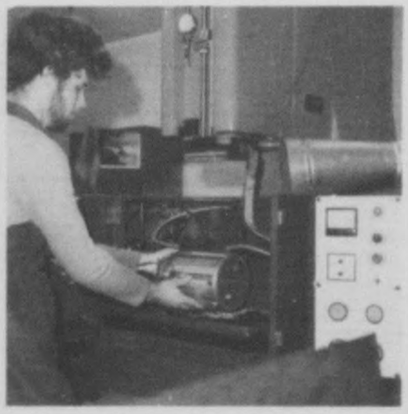
Some of the special equipment we use in manufacturing to effect time/cost reductions are Numerical Control Machining Centers (with tape and programing capability in plant)*, 3 Dimensional Tape Control Milling Machines*, 3 Dimensional Hydraulic Profilers*, Wiedematic Tape Control Turret Punch Press and Multiple Surface Broaching Machines.

*Several of each type have multiple spindle heads. Please see attached list of major conventional equipment.







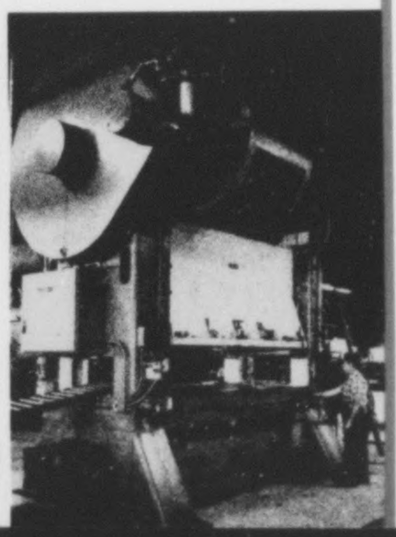


PRODUCTION ENGINEERING / MANUFACTURING

2335 ALASKA AVENUE EL SEGUNDO, CALIFORNIA 90245 TELEPHONE (213) 772-6363
TWX TMI ELSD 910-325-6613

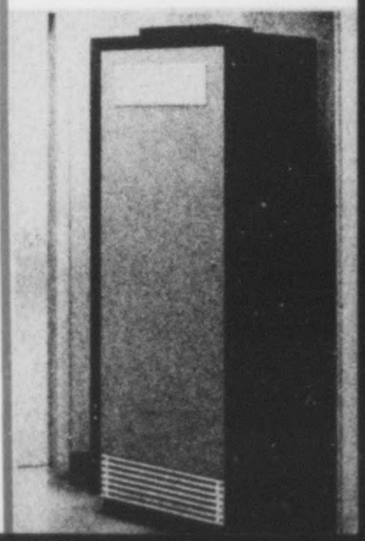
744

SUCKLE
CORPORATION



VERSATILITY IN METAL FABRICATION AND FINISHING

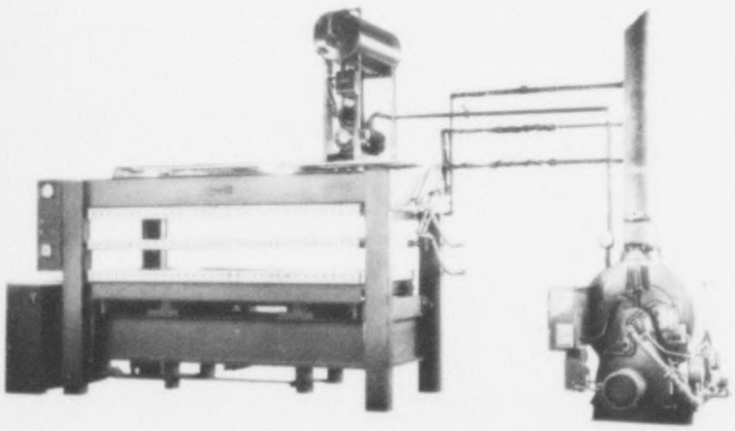
745



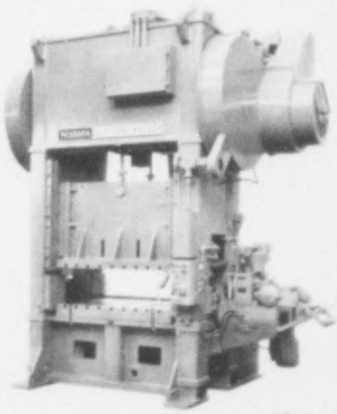
SUCKLE— SCRANTON...

This 150,000 square foot sprinkled plant located in Scranton, Pennsylvania has complete facilities to manufacture cabinets, computer skins, honeycomb panels and stampings. Multiple conveyorized assembly and finishing lines, packing area and railroad sidings enable Suckle to produce and ship these products with maximum efficiency. A recently completed 18,000 square foot addition has improved steel handling and storage capabilities. Our new honeycomb production facility is also located here.

RECENT NEW EQUIPMENT ADDITIONS

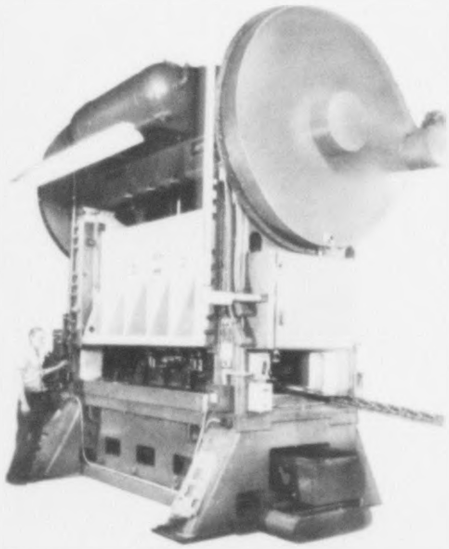


Double Platen Press
for Honeycomb Manufacturing



200 Ton Press

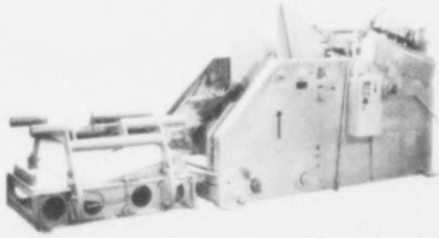
RECENT NEW EQUIPMENT ADDITIONS



400 Ton Press

SUCKLE — PENNSAUKEN...

This 160,000 square foot fully sprinkled plant, located in Pennsauken, New Jersey, adjacent to Philadelphia, houses a self-contained metal working facility. The plant is facilitated to handle prototypes, short run or complete production and was designed to service our customers' needs with maximum efficiency.

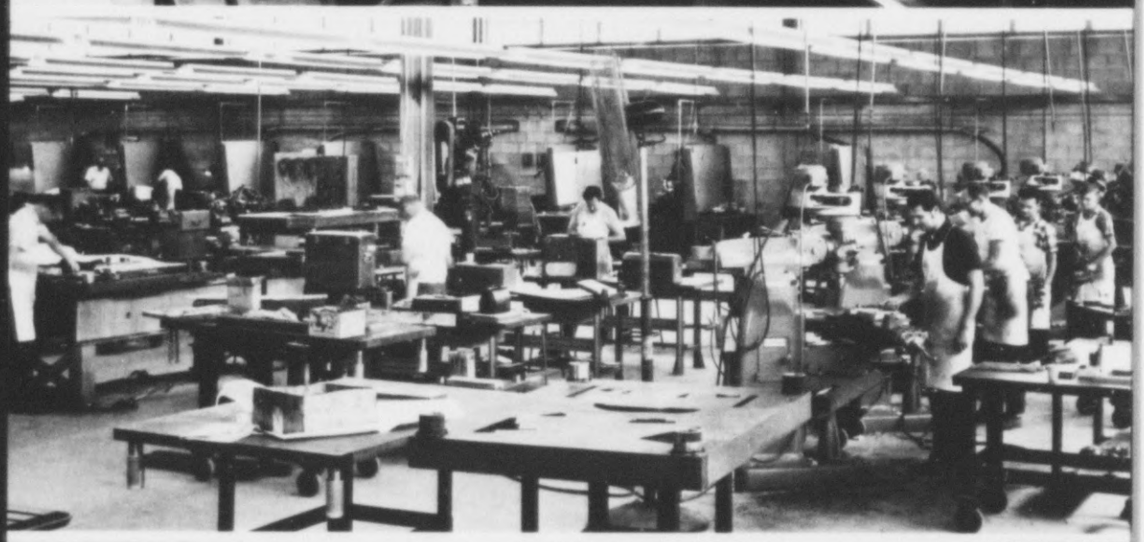


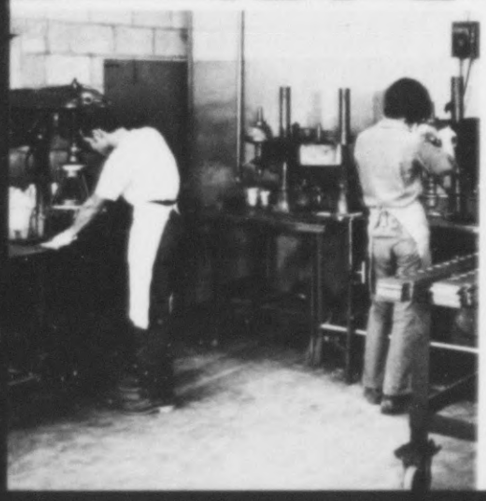
Coil Handling Equipment

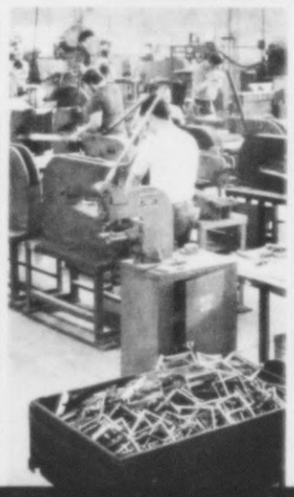
747

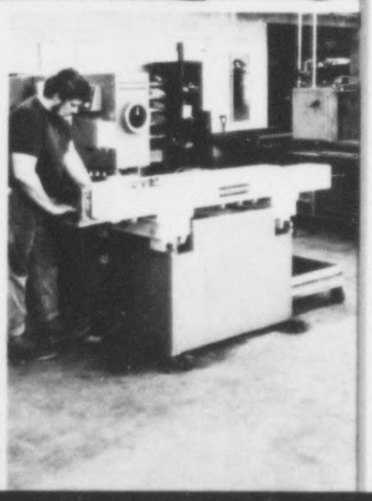
THE SUCKLE CORPORATION— SPECIALISTS IN CUSTOM METAL FABRICATION

Suckle is a custom manufacturer of stampings, cabinets, honeycomb sandwich bonded panels and assemblies in metal. Our completely equipped plants offer you access to services ranging from the development of designs to shipping completely finished ready-to-use parts or enclosures. Complementing this diverse production equipment, Suckle has a full range of supporting services, die design engineering, a large, well-staffed tool room, a prototype model shop, modern finishing equipment and strict quality control. The following pages highlight the major manufacturing and services available to you at both Suckle/Pennsauken and Suckle/Scranton.









DESIGN ENGINEERING

The engineering department carefully translates your design drawings into short run or production tools and fixtures. Suckle frequently suggests modifications that will permit more economical production, improve quality or decrease cost. Engineers are always available to consult with you on particular problems.

TOOL MAKING

Suckle manufactures all of its own tools and fixtures. Our large tooling facility is fully equipped with modern equipment and staffed with experienced craftsmen. Tool maintenance is programmed to minimize breakdowns and assure efficient production.

MODEL SHOP/ SHORT RUN PRODUCTION

Prototype and short run piercing and notching are manufactured on a tape programmed Weidematic (see photo) or on a stylus "master template" type turret punch machine. Temporary tools, hand brakes or production equipment are utilized where possible, to minimize costs.

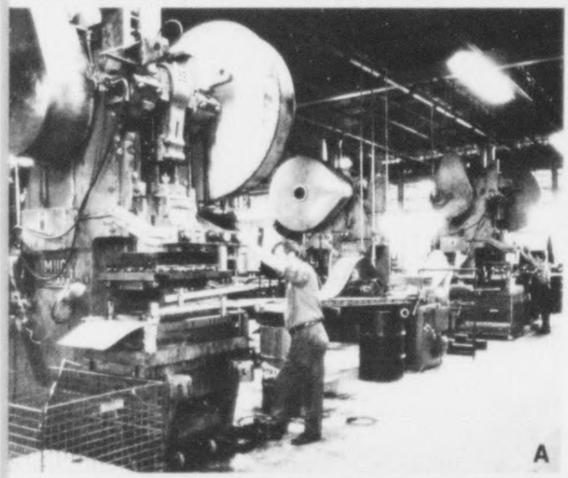
RAW MATERIAL STORAGE

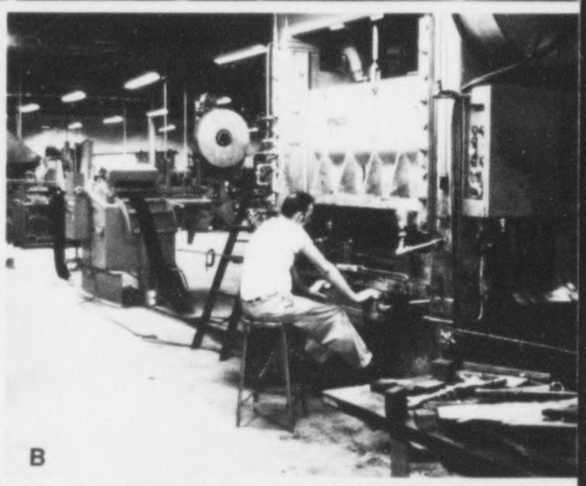
Large inventories of all types of cold rolled and precoated steel, aluminum and electrical steels in coil and sheets are maintained at both the Scranton and Pennsauken facilities. This wide range of available materials enables our customers to reduce their own "in house" inventory and rely on Suckle in an emergency.

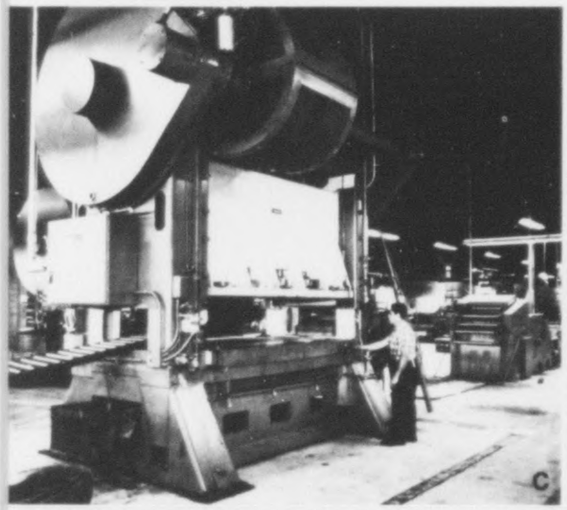
POWER PRESS EQUIPMENT

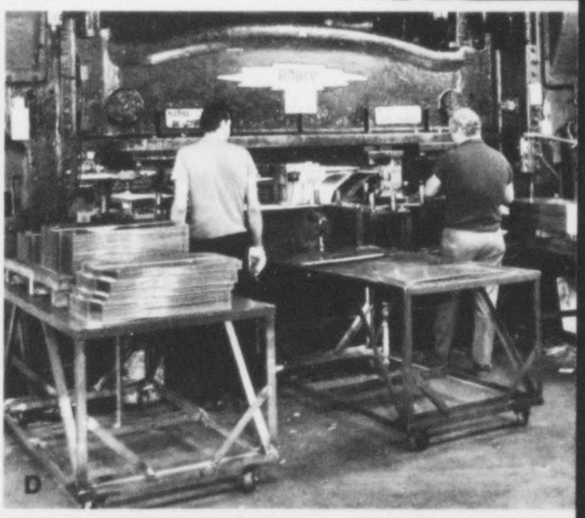
With over 100 power presses of various sizes, up to 400 tons between two facilities, Suckle is completely equipped to handle an exceptionally wide variety of stampings.

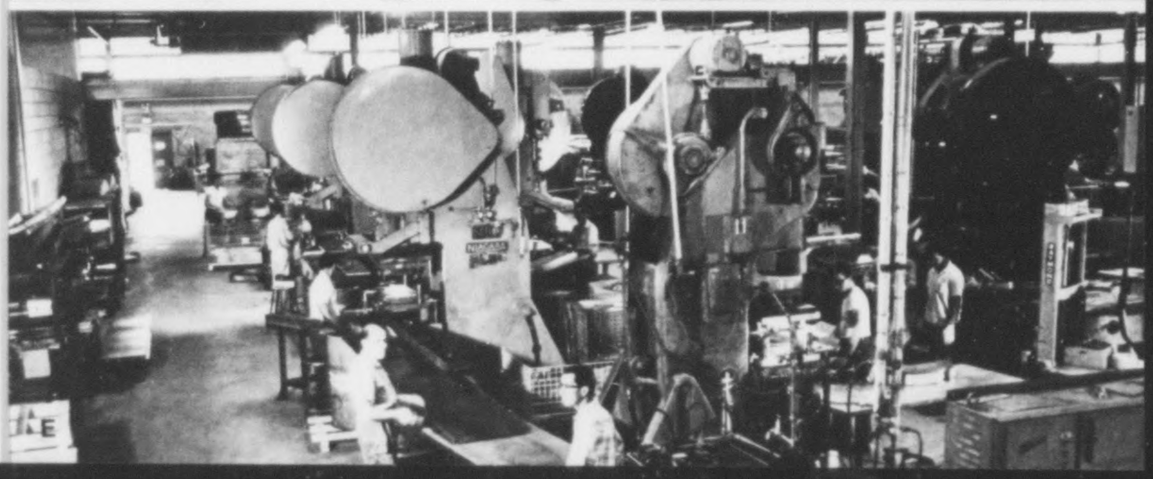
a. Batteries of modern 125 ton automatic presses. Parts can be manufactured from either coil or strips.
b. 150 ton press equipped with a double reel and electric eye to insure positive feed.
c. 400 ton press with a bed size of 60" x 96". Material 32" wide in 10,000 lb. coils can be handled efficiently.
d. Double crank 250 ton press with air cushion has an oversized bed area for cabinet bottoms and bases.
e. TV chassis and shields are manufactured on presses set in a line for maximum efficiency.

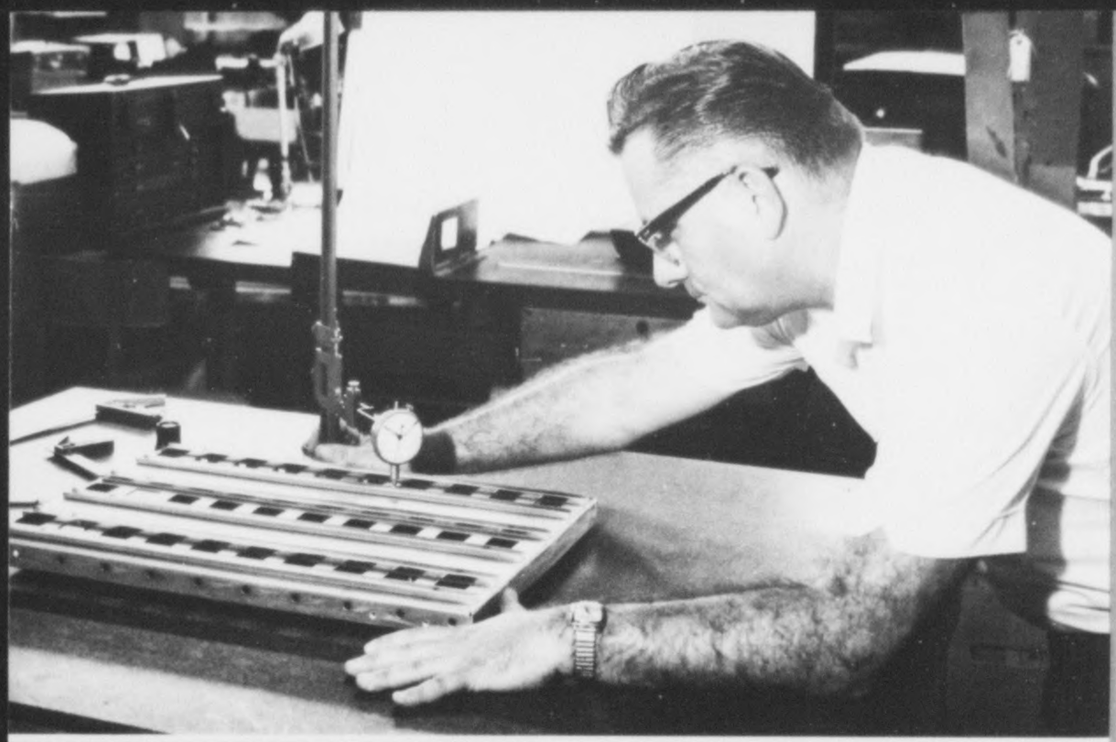






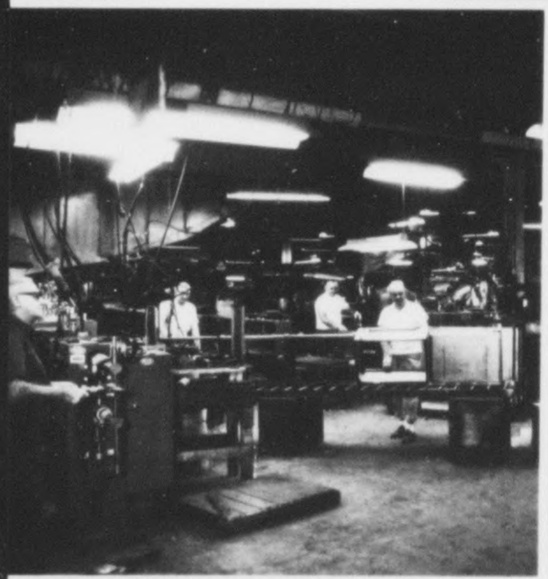


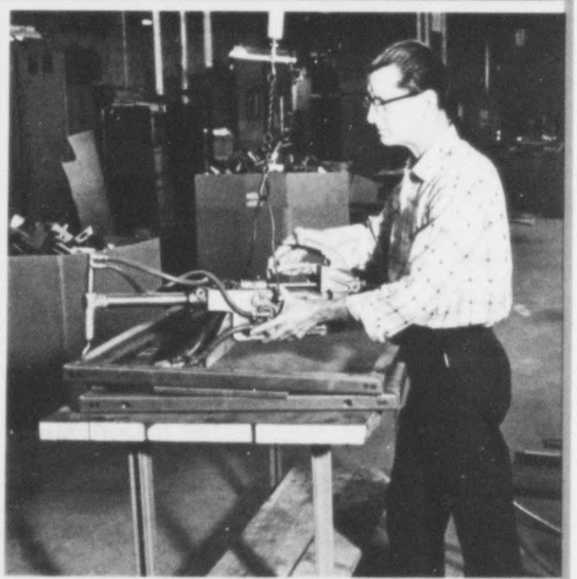




QUALITY CONTROL

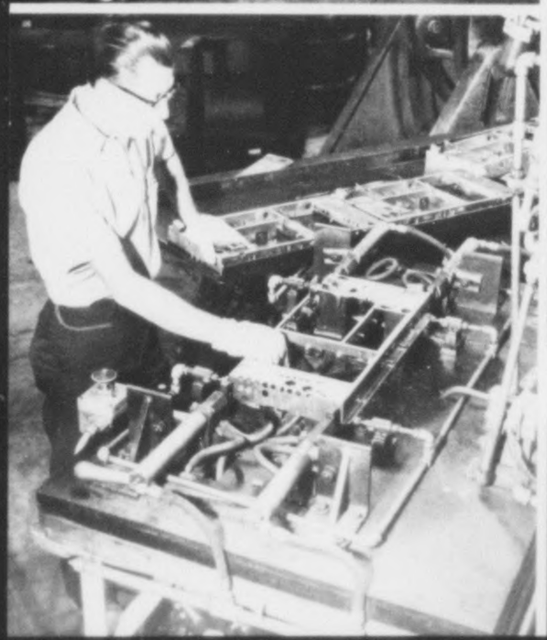
Quality Control is considered the most important department at Suckle. The reputation we have earned for *"Quality Production"* is very carefully guarded. Skilled personnel for "in-process" and "final" inspection utilize modern equipment assuring strict compliance to customer drawings and specifications. Detailed records, reports and programmed instrument recalibration are part of sustaining our "approved" status with leading manufacturing companies.

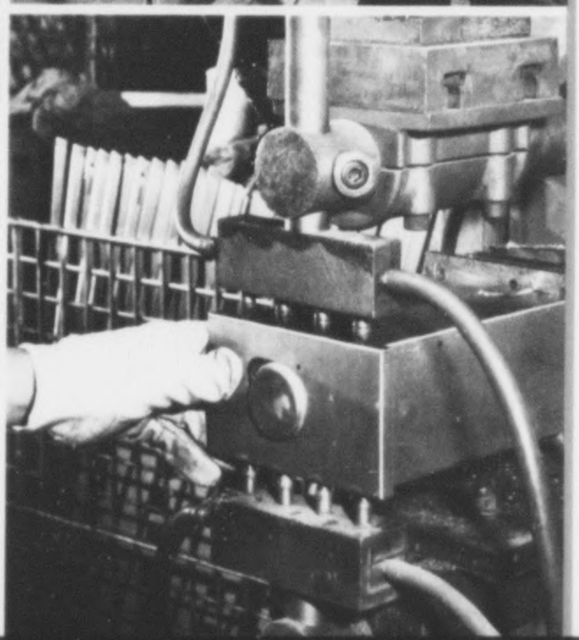




SPOT WELDING

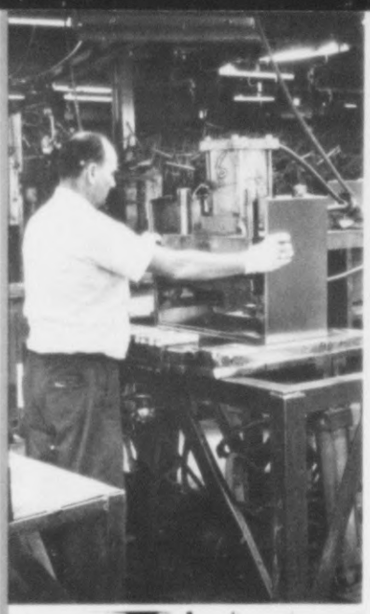
Suckle has a total of 54 press, rocker and gun-type, three phase spotwelding machines ranging from 20 to 100 KVA for short run or production orders, including equipment to do capacitor discharge stud welding. The Suckle know-how enables you to specify the most rigid spotwelding requirements. All this equipment is certified for military work. Welds are checked by a Dillon pull test machine.





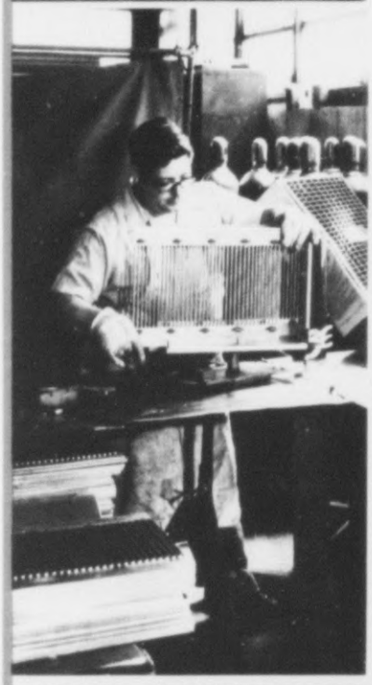
BRAKE FORMING

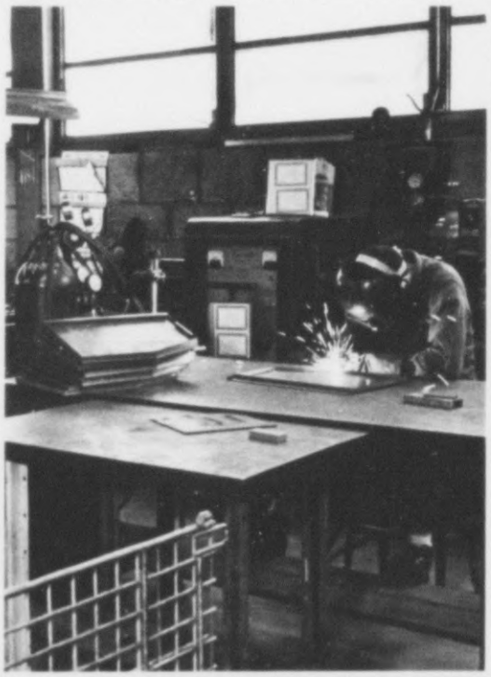
At both Suckle production facilities, there are a total of 35 power brakes ranging from 25 ton to 300 ton. This equipment is used for both short run and production quantities. Tangent bending equipment as pictured is used for greater efficiency in "U" forming of boxes and cabinets.



ARC WELDING

Aluminum, mild steel, stainless steel and other metals are heliarc welded on the latest type of metallic inert gas (MIG) and tungsten inert gas (TIG) welding equipment at both plants.



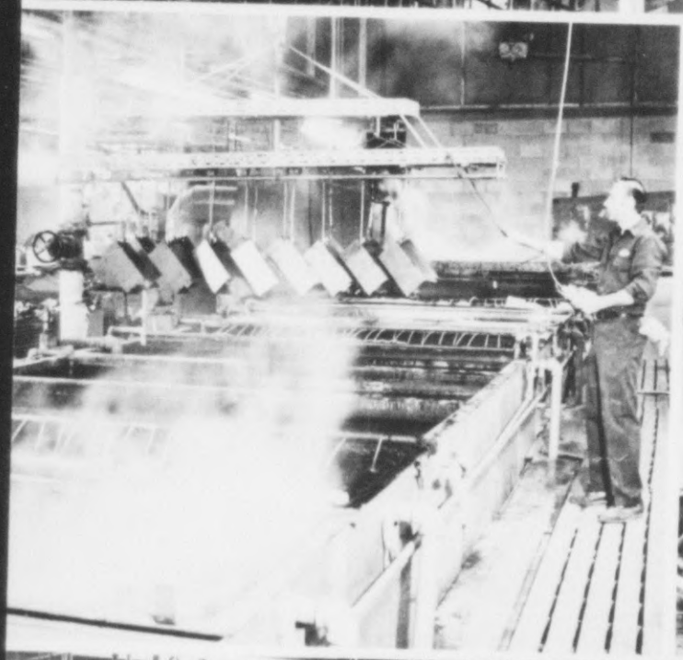


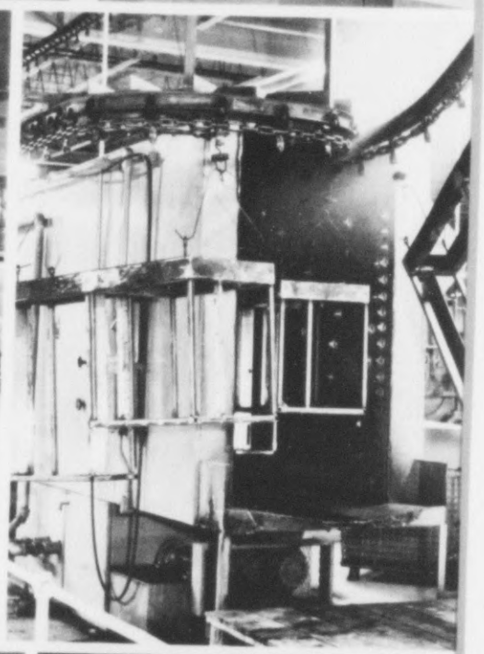
GRINDING EQUIPMENT

In addition to the hand grinders and grinding wheels customarily found in a metalworking shop, there is a "Timesaver" belt sander at both of our plants. This equipment enables us to deburr edges and cutouts in the flat economically for both production and model ship quantities.

DEGREASING

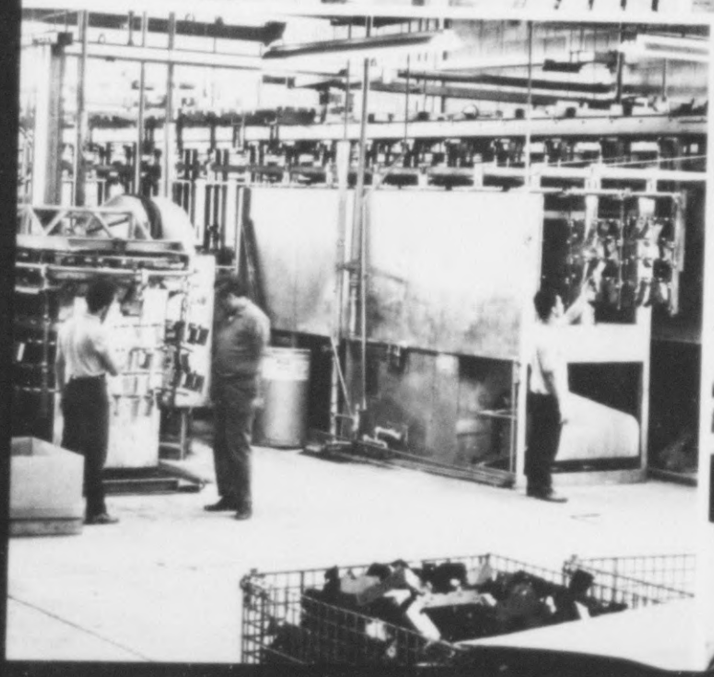
Conveyorized vapor degreasing is used at Scranton and Pennsauken to assure our customers that their products will be clean and free of oil or grease.

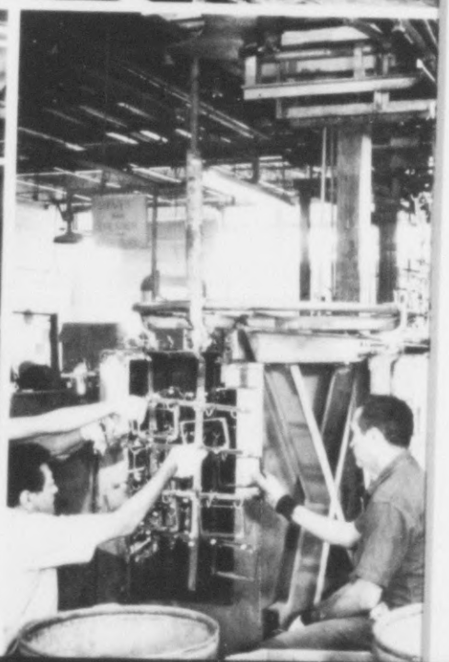




METAL PREPARATION

A batch dip system for zinc and iron phosphating steel, satin etching and chromate conversion coating of aluminum is utilized when necessary. Conveyorized bonderizing is available at either plant.





PLATING

Our plating department is equipped with fully automatic zinc and cadmium plating machines. Post plating dips are supplied as required to meet customer specifications.

QUALITY CONTROL

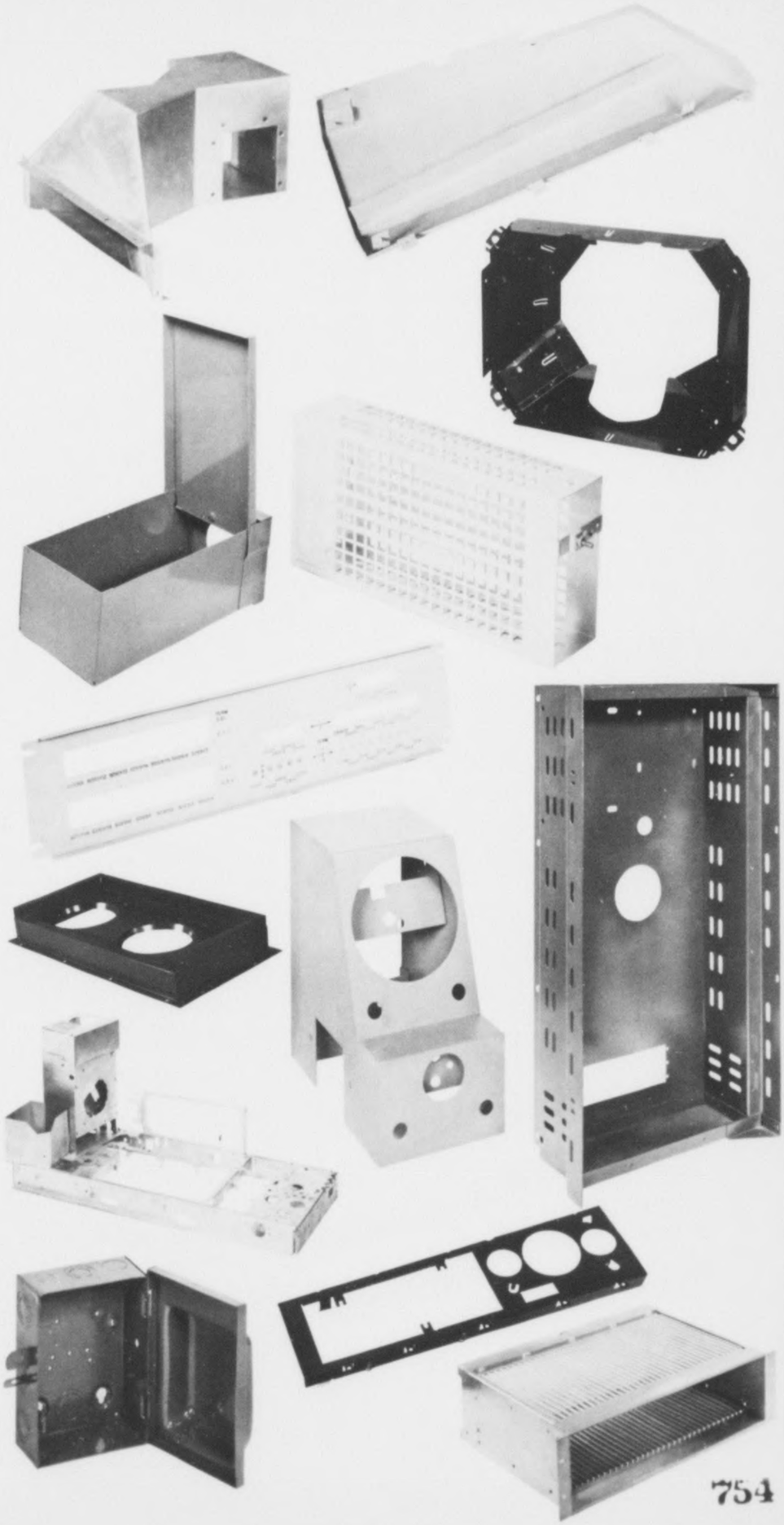
The finishing department is constantly monitored by using the latest inspection and testing equipment. Thickness gauges, gloss meters and color standards are utilized by our inspectors to insure the highest quality work.

PAINTING

At both Pennsauken and Scranton plants there are fully conveyorized spray and dip painting lines using independent ovens. Each facility has its own five stage bonderizer and pressurized water-wash spray booths. This enables us to apply virtually any type of painted finish to meet the most exacting standards.

A VERSATILE SOURCE

AS DEPICTED IN THE PRECEDING PAGES OF OUR BROCHURE, THE STRENGTH OF THE SUCKLE CORPORATION LIES IN ITS VERSATILITY. THE MARRIAGE OF A TOP MANAGEMENT TEAM WITH VETERAN CRAFTSMEN AND MODERN MACHINERY WILL ASSURE YOU A QUALITY PRODUCT. THE BROAD SPECTRUM OF OUR CAPABILITY IS REFLECTED IN THE WIDE VARIETY OF OUR PRODUCTS ILLUSTRATED ON THE FOLLOWING PAGES.

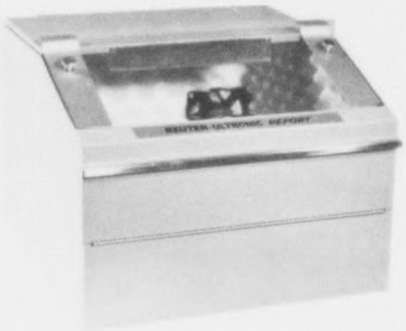


SUCKLE
CORPORATION

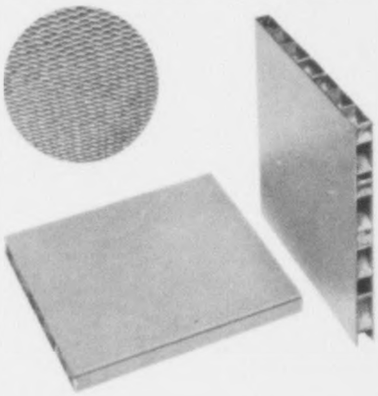
Subsidiary of
Nytronics, Inc.

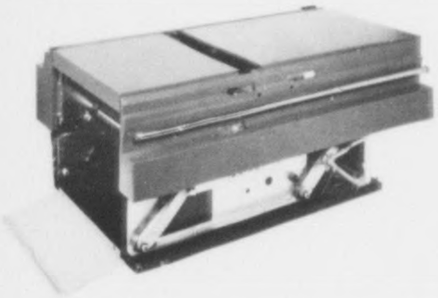
Typical of many television cabinets produced with painted roller-grained finishes or with vinyl-clad steel laminates.

Teletype sound deadening cabinet we designed, fabricated, finished and assembled.



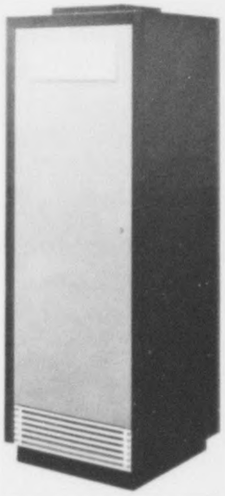
Honeycomb bonded panels consist of paper honeycomb bonded to metal panels which can then be finished as required.





Exterior metal parts painted with a textured finish and side plates cadmium plated for an electrostatic copying machine company.

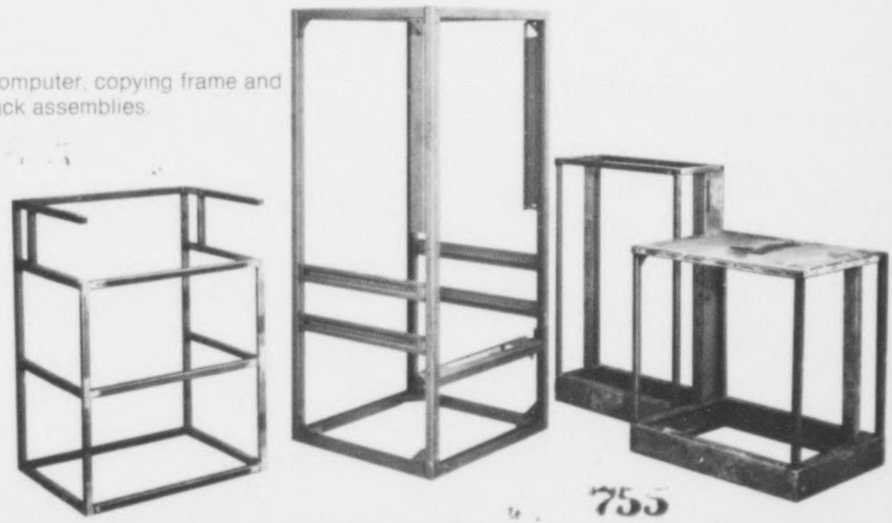
Outer skins and cabinetry that contain peripheral equipment. Parts were painted with a textured finish and with a smooth vinyl paint and then silkscreened.



Console assembly which illustrates our total capability. (Design—metal fabrication—painting—plating and assembly)

Computer door and side panels.

Computer, copying frame and rack assemblies.



At Suckle we have versatility to overcome your metal fabrication problems.
Why not visit us and see for yourself!
Meet our people!
Check our facilities!
Compare our total capabilities!
We are certain we can be of service to you.

SUCKLE CORPORATION

Subsidiary of

Nytronics, Inc.

Suckle and National Highways, Pennsauken, N.J. 08110 • (609) 665-9100
733 Davis Street, Scranton, Pennsylvania 18501 • (717) 346-3871

Nytronics Components Group, Inc.

INTER-OFFICE CORRESPONDENCE

CONSOLIDATED

PERFORMANCE vs FORECAST

Fiscal 1974

Activity Through May 4, 1974

Leo A. Moreau
President

NYTRONICS COMPONENTS GROUP, INC.

cc:B. Goldsmith
S. Ofrichter
C. B. Vaughn
R. Ammirati
G. Truluck

Nytronics Components Group, Inc.

SUBSIDIARY OF NYTRONICS, INC.
ORANGE STREET, DARLINGTON, S. C. 29532

TEL. (803) 393-5421

THE COMPANY

Nytronics Components Group, Inc. is a diversified manufacturer of electronic components. The major product lines consist of power resistors, film capacitors, paper capacitors, ceramic capacitors, inductors, chokes, and delay lines. The company has been successfully manufacturing these products since 1940.

Since 1970 the company has consolidated several operating divisions in Darlington, South Carolina.

The company has been successful in achieving a financial turnaround and is currently producing a respectable return on investments.

Sage Electronics, Essex Electronics and Darlington Capacitor Division are all widely known in the component industry and form the nucleus of Nytronics Components Group, Inc.

Our customer base includes the major computer manufacturers, communications companies and many defense or military contractors. These customers include such names as I.B.M., Burroughs, Control Data Corporation, Honeywell, G. E., R.C.A., Collins Radio, Philco Ford, Raytheon, Mohawk Data, etc.

Approximately 35-40% of our total sales are through industrial electronic distributors. An additional 10% is sold out of the country.

The entire electronics industry is currently enjoying a very healthy economy.

The company currently employs 550 people in Darlington, South Carolina and has a payroll of over $2,548,000 a year in this county.

A large portion of the capital raised will be used to develope approximately 200-260 new jobs in Darlington County over a two and one half year period.

At current labor and salary rates (which will undoubtedly increase) this increase in work force will add up to $1,186,000 in increased payroll. This will bring our total payroll up to $3,734,000 per year in Darlington County.

The company has its corporate office at Orange Street, Darlington, South Carolina 29532. (Telephone 803-393-5421).

Nytronics Components Group, Inc.

SUBSIDIARY OF NYTRONICS, INC.
ORANGE STREET, DARLINGTON, S. C. 29532

TEL. (803) 393-5421

PLANNED GROWTH

1974 - 1978

Year	1974	1975	1976	1977	1978
Net Sales	6721.0	7250.0	8000.0	10000.0	12000.0
Division Contribution	1100.0	1400.0	2000.0	2500.0	3000.0

All of the above numbers except 1974 are contingent on a successful bond sale.

NYTRONICS COMPONENTS GROUP, INC.

FISCAL 1974

	FORECAST			ACTUAL		
Month	Net Sales	Div. Cont.	%	Net Sales	Div. Cont.	%
August	258.0	8.9	3.0	296.5	30.2	10.0
September	515.0	66.0	13.0	491.6	88.4	18.0
October	566.5	73.8	13.0	633.8	106.0	17.0
TOTAL QTR.	1399.5	148.7	11.0	1421.9	224.6	16.0
November	491.3	63.4	13.0	515.0	60.9	12.0
December	491.3	63.4	13.0	532.5	89.9	17.0
January	613.9	79.1	13.0	642.1	164.0	25.5
TOTAL QTR.	1596.5	205.9	13.0	1689.6	314.8	18.6
February	491.3	63.4	13.0	601.1	112.7	18.7
March	550.0	77.9	14.2	576.5	69.5	12.1
April	650.0	97.4	15.0	682.1	124.2	18.2
TOTAL QTR.	1691.3	238.7	14.1	1859.7	306.4	16.5
May	550.0	73.1	13.3			
June	550.0	73.1	13.3			
July	650.0	102.2	15.7			
TOTAL QTR.	1750.0	248.4	14.2			

	FORECAST			ACTUAL		
Total Year To Date	4687.3	593.3	12.8	4971.2	845.8	17.0

Chairman

Nytronics, Inc.
105 MADISON AVENUE, NEW YORK, N. Y. 10016

April 16th, 1974.

Mr. Pat C. Smith, Esq.
State Auditor, Room 205
Wade Hampton Office Building,
Columbia, South Carolina 29211

Dear Mr. Smith:

Enclosed there is a letter from our investment bankers to whom we refer questions having to do with corporate finance transactions of the nature of the Darlington County, 2.5. million debt issuance.

We respect their opinion and pass same on to you for your perusal.

Very truly yours,

Samuel Ofrichter

Samuel Ofrichter,
Senior Vice President

STERLING, GRACE & CO.
INCORPORATED
ESTABLISHED 1885

39 BROADWAY
NEW YORK, N.Y. 10006

BENSON A. SELZER
VICE PRESIDENT
CORPORATE FINANCE

TEL. 212-422-2800
CABLE ADDRESS: "GRASTERL"

April 16th, 1974

Bernard M. Goldsmith, Esq.
Chairman of the Board
Nytronics, Inc.
105 Madison Avenue
New York, New York 10016

Dear Mr. Goldsmith:

You have inquired of us as to the advisability of arranging a transaction between Nytronics, Inc. and Wood Bros.-Peebles Investments, Inc. whereby they underwrite and sell approximately $2.5 million municipal revenue bond issue of your subsidiary Nytronics Components Group, Inc. of the County of Darlington in the State of South Carolina.

You have told us that it is anticipated that the interest rate will be no more than eight and one-half percent (8 1/2%), the net proceeds to Darlington after all expenses will be no less than approximately $2.5 million and there will be an equal annual payout of the obligation so that there will be no remaining unpaid balance due to the bondholders at the end of the twenty-five year period.

We have determined our opinion on examination of market conditions related to financial and operating figures of Nytronics Components Group, Inc. and inquiries of other underwriting firms handling the same or similar kinds of issues.

We, as investment bankers to you, advise the acceptance of this foregoing arrangement. We additionally advise that it would be very unwise for Nytronics Components Group, Inc. to seek any further competitive bidding on a transaction of this sort. There is no doubt in our minds that such a procedure would almost immediately deteriorate the terms under which you could arrange financing.

Very truly yours,

Benson A. Selzer

Benson A. Selzer

BAS/jz

762

Division Monthly Reporting Form

Wytronics Components Group, Inc — Division

Feb. 1974 — Period Ended

BALANCE SHEET
(cents omitted)
After Audit

Exhibit A

Line	Assets	
1	Cash	250,042
2	C. D.'s and Marketable Securities at Cost	
3	Accounts and Notes Receivable - Trade (Net) - Schedule I	1,116,372
4	Other Receivables	(10,014)
5	Inventories - Schedule II	1,490,675
6	Prepaid Expenses	(768)
7		
8	Total Current Assets	2,846,307
9		
10	Investments in Subsidiaries	
11		
12	Inter-Company Accounts Receivable (Payable)	608,220
13	Intra-Company Accounts Receivable (Payable)	
14	Inter-Company Notes Receivable (Payable)	
15	Inter-Company Accrued Interest Receivable (Payable)	
16		
17	Property, Plant and Equipment:	
18	Land, Buildings and Improvements	627,611
19	Machinery and Equipment	2,526,479
20	Total	3,154,090
21	Less Accumulated Depreciation	1,805,178
22	Fixed Assets - Net - Schedule III	1,348,912
23		
24		
25	Deferred Charges and Other Assets	
26	Excess of Cost Over Book Value of Net	
27	Assets of Acquired Businesses	1,282,571
28		
29		
30	Total Assets	6,086,010

	Liabilities and Stockholders' Equity	
31	Notes Payable - Schedule IV	1,253,938
32	Current Portion of Long-Term Debt - Schedule V	16,170
33	Accounts Payable - Schedule VI	233,993
34	Accrued Liabilities	334,872
35	Accrued Income Taxes	15,864
36		
37		
38	Total Current Liabilities	1,854,847
39		
40	Long-Term Debt - Schedule V	510,782
41	Reserve for Deferred Income Taxes, etc.	
42	Minority Interests	
43		
44	Stockholders' Equity:	
45	Capital Stock	1,000
46	Capital Surplus	3,529,624
47	Retained Earnings:	
48	Beginning of Year	(330,520)
49	Profit (Loss) - Year to Date	520,217
50	Other	
51	Total Retained Earnings	189,697
52	Total Stockholders' Equity	3,720,341
53		
54	Total Liabilities and Stockholders' Equity	6,086,010

763

NYTRONICS, INC. & SUBSIDIARIES

Division Monthly Reporting Form

Nytronics Components Group Inc — Division

Feb 1974 — Period Ended

Exhibit B

PROFIT AND LOSS STATEMENT (cents omitted)	Current Month $	REVISED Year-To Date $	BEFORE Audit YEAR-TO DATE $	NET CHANGE
Net Sales	601,054	3,712,657	3,712,657	-0-
Cost of Sales	407,354	2,569,065	2,580,529	(11,464)
Gross Profit	193,700	1,143,592	1,132,128	11,464
Operating Expenses:				
Selling	41,971	277,308	276,589	719
General & Administrative	26,575	186,509	185,749	760
Total Operating Expenses	68,546	463,817	462,338	1,479
Operating Profit	125,154	679,775	669,790	9985
Other (Income) and Expenses:				
Interest Income				
Interest Expense	925	6138	6,638	-0-
Other (Income) and Expenses - Net		(500)	(500)	-0-
Total Other (Income) and Expense	925	6138	6138	-0-
Divisional Profit Contribution	124,229	673,637	663,652	9985
Allocated Corporate Expenses				
Income Before Non-Operating Charges	124,229	673,637 ×	663,652	9,985
Non-Operating Charges				
Inter-Company Interest	15,497	77,766	77,765	1
Reappraisal Depreciation		21,546 ×	—	21,546
Other - Exp. of Closing Loan	40,700	40,700	40,700	-0-
Goodwill	1,788	13,408 ×	13,408	-0-
Total Non-Operating Charges	57,985	153,420	131,873	21,547
Net Income Before Federal Income Taxes	66,244	520,217	531,779	(11,562)
Federal Income Tax				
Income Before Extraordinary Gains (Losses)				
Extraordinary Gains (Losses)				
Net Income				

1/73)

Division Monthly Reporting Form

Nytronics Components Group Inc — Division

Feb. 1974 — Period Ended

ACCOUNTS RECEIVABLE ANALYSIS — Schedule I

Age Analysis:	
Current	637,259
Past Due:	
1-30 days	294,377
31-60 days	103,259
Over 60 days	99,957
Uncollectable (Bankruptcy, etc.)	
Total Past Due	497,593
Receivables Not Aged Transitor + DMS	32,944
Total Trade Receivables (No. of Calendar Days Sales _____)	1,169,396
Less: Reserve for Doubtful Accounts	53,024
Net Trade Receivables per Page 1, Line 3	1,116,372
Analysis of Reserve for Doubtful Accounts:	
Reserve Balance - Beginning of Year	44,621
Add: Additions to Reserve - Year to Date	28,000
Less: Bad Debts Written Off, Net of Recoveries - Year to Date	19,597
Reserve Balance - End of Period	53,024

INVENTORY ANALYSIS — Schedule II

Raw Materials	449,854
Work in Process	408,644
Finished Goods	632,177
Total Inventory per Page 1, Line 5	1,490,675

FIXED ASSET ANALYSIS — Schedule III

Assets:	Balance at Beginning of Year	Acquisitions to Date	~~Retirements, Write-offs,~~ Reclassify etc.	Sales	Balance at End of Period
Land	50,000				50,000
Buildings and Improvement	561,471	16,140			577,611
Leasehold Improvements					—
Machinery and Equipment	2,154,878	59,126	(170,283)		2,043,721
Furniture and Fixtures	173,738	3,185	45,159		222,083
Test Equipment	133,543	2,004	125,124		260,675
Autos and Trucks					
Total	3,073,631	80,459	-0-		3,154,090

Reserve for Depreciation:	Balance at Beginning of Year	Depreciation This Year	~~Retirements, Write-offs,~~ Reclassify etc.	Depreciation on Assets Sold	Balance at End of Period
Buildings and Improvements	152,189	20,332			172,521
Leasehold Improvements					
Machinery and Equipment	1,327,840	88,400	(146,039)		1,270,201
Furniture and Fixtures	110,533	5,948	43,093		159,574
Test Equipment	95,510	4,426	102,886		202,822
Autos and Trucks					
Total	1,686,072	119,106	-0-		1,805,178
Fixed Assets - Net per Page 1, Line 23					1,348,912

NYTRONICS, INC. AND SUBSIDIARIES

Division Monthly Reporting Form

Nytronics Components Group, Inc. — Division

Feb. 1974 — Period Ended

Line	NOTES PAYABLE — Schedule IV				
	Int. Pd. or Accrued		Principal Payment		Unpaid
Description-Payee, Interest Rate, etc.	Month	Yr. to Date	Month	Yr. to Date	Balance
1 Aetna - Equip.	2486	2486			225,000
2 Aetna - Inventory	1808	1808			200,000
3 Aetna Factor	6437	6437			778,934
4					
5					
6					
7					
8					
9					
10					
11 Total	10,731	10,731			1,253,934

	CURRENT AND LONG TERM DEBT — Schedule V						
	Int. Pd. or Accrued		Principal Payment		Current Portion	Due in More than	Total Long Term
Description-Payee, interest Rate, etc.	Month	Yr. to Date	Month	Yr. to Date	Of Debt	One Year	Debt
1 Equitable Life Assur.	2830	8667	3894	11,525	16,170	185,782	201,952
2 Aetna	980	980			325,000		325,000
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16 Total	3810	9647	3894	11,525	341,170	185,782	526,952

ACCOUNTS PAYABLE ANALYSIS — Schedule VI	
Age Analysis:	
Current	57,621
Past Due	
1-30 days	64,957
30-60 days	64,257
60-90 days	22,608
90-120 days	23,552
Total Accounts Payable	233,993

NYTRONICS, INC. AND SUBSIDIARIES

Division Monthly Reporting Form

Nytronics Components Group, Inc. — Division

Feb. 1974 — Period Ended

Line	NOTES PAYABLE — Schedule IV				
	Int. Pd. or Accrued		Principal Payment		Unpaid
Description-Payee, Interest Rate, etc.	Month	Yr. to Date	Month	Yr. to Date	Balance
1 Aetna - Equip.	2486	2486			225,000
2 Aetna - Inventory	1808	1808			200,000
3 Aetna - Factor	6437	6437			778,934
4					
5					
6					
7					
8					
9					
10					
11 Total	10,731	10,731			1,253,934

CURRENT AND LONG TERM DEBT — Schedule V							
Description-Payee,	Int. Pd. or Accrued		Principal Payment		Current Portion	Due in More than	Total Long Term
Interest Rate, etc.	Month	Yr. to Date	Month	Yr. to Date	Of Debt	One Year	Debt
1 Equitable Life Assur.	2830	8687	3894	11,525	16,170	185,782	201,952
2 Aetna	980	980			325,000		325,000
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16 Total	3810	9667	3894	11,525	341,170	185,782	526,952

ACCOUNTS PAYABLE ANALYSIS — Schedule VI	
Age Analysis:	
Current	58,122
Past Due	
1-30 days	64,950
30-60 days	64,257
60-90 days	22,608
90-120 days	23,552
Total Accounts Payable	233,993

NYTRONICS, INC. AND SUBSIDIARIES

Division Monthly Reporting Form

Nytronics Components Group Inc. — Division

FEB. 1974 — Period Ended

CASH FLOW ANALYSIS	Schedule VII
A. Div ional Profit Contribution (Loss)-After Group Expenses-Year to Date	673,637
Depreciation and Amortization	119,106
Cash Flow	792,743
Add or (Deduct)	
Capital Expenditures	(80,459)
Allocated Corporate Expenses	(—)
Debt Principal Payments	(11,525)
(Increase) or Decrease in:	
Trade Receivables	(116,414)
Inventories	(146,352)
Inter-Company Receivables	
PREPAID EXP., OTHER REC., DEF. EXP.	(205)
(Decrease) or Increase in:	
Trade Payables and Accrued Liabilities	(237,298)
Notes Payable	(371,793)
Inter-Company Payables	568,697
AETNA MORTGAGE	325,000
All Other Y.E. ADJUSTMENTS TO CAPITAL SURPLUS	2,983,447
NON-OPERATING CHARGES (GOODWILL, INT., ETC.)	(152,421)
Net Addition or (Deductions)	(584,322)
Cash Funds Available from Operations-Net of Cash Advanced to Corporate	208,421
B. Cash Advanced to Corporate	—
C. Cash Balance at Beginning of Fiscal Year	41,621
Cash Balance at Close of this Period	250,042
Increase (Decrease)	208,421

SALES ORDER BACKLOG	Schedule VIII
Open Orders – Beginning of Month	2,414,000
Order Received During Month	710,000
Total	3,124,000
Less: Current Month's Sales	601,054
Cancellations	20,454
Open Orders – End of Month	2,543,400

767

NYTRONICS, INC. AND SUBSIDIARIES

Division Monthly Reporting Form

Nytronics Components Group Inc — Division

FEB 1974 — Period Ended

INTER-COMPANY SALES	Schedule IX	
	Year to Date	
Name of Division or Company Sold To	Sale $	Gross Profit % Earned
Omnitec	2858	20%

INTER-COMPANY INVENTORY	Schedule X	
Name of Division or Company Purchased From	Year to Date Purchases	Balance in Inventory End of Month
N/A		

MISCELLANEOUS INTER-COMPANY TRANSACTIONS		Schedule XI
Name of Division or Company Involved	Nature of Transaction and Account Charged or (Credited) by Reporting Division	Year to Date $ Amount
Separate Analysis		

768

NYTRONICS, INC. AND SUBSIDIARIES

Division Monthly Reporting Form

Nytronics Components Group, Inc. — Division

FEB. 1974 — Period Ended

ACCRUED LIABILITIES

	Balance	Net Increase (Decrease) From Previous Month
Accrued Payroll	30,597	735
Vacation Pay	39,335	7268
Holiday Pay	(7337)	3900
Commissions	61,194	(28095)
Interest	885	(1905)
Property Taxes	35,915	(43905)
Professional Fees	32,419	629
Pensions	24,700	1300
Heat, light & power	15,372	362
Federal taxes w/h	10,877	(4312)
State Taxes w/H	4294	(4216)
City/Local taxes w/H	–	–
FICA w/H	5741	(2667)
Employer's portion FICA	5741	(2667)
Group Insurance w/H	–	250
Telephone Fed + State Unemployment	18,166	5377
Insurance Accrued Misc.	10,486	(7680)
Current Portion of Reserve N.Y. State Franchise	8035	-0-
Current Portion of Reserve		
Current Portion of Reserve		
Other (describe) Advertising	14,389	3609
Plant Protection	1502	50
Accrued Accounts Payable	21,808	920
Workmen Comp.	–	(18327)
*All Other	421	949
Total Accrued Liabilities per Balance Sheet, Page 1	334,878	(88,475)

* Include only accounts of less than $1,000.

769

NyTronics Components Group, Inc. — EXHIBIT # 8

Combined Sales Forecast

Cost of Sales - Gross Profit

4th Qtr 1974 Thru 1976

1 of 2

	4th Qtr 1974	1974 TOTAL	1st Qtr 1975	2nd Qtr 1975	3rd Qtr 1975	4th Qtr 1975	1975 TOTAL	1st Qtr 1976	2nd Qtr 1976	3rd Qtr 1976	4th Qtr 1976	1976 TOTAL
CAP-Ind. Res. - NET SALES	17500	66627	14260	17360	17980	18600	68200	15279	19130	19805	20406	75020
COST OF SALES												
MATERIAL	(22.2) 3889	14141 (20)	2881 (19.7)	3420 (19.7)	3470	(18.8) 3497	(19.2) 13268	(18.5) 2908	(18.4) 3529	(18.4) 3654	(18.4) 3765	(18.4) 13856
LABOR	(23.3) 4079	15545 (21.5)	3066 (19.5)	3385 (19.5)	3200	(15.4) 2864	(18.4) 12515	(14.3) 2242	(13.8) 2640	(13.7) 2719	(13.8) 2816	(13.7) 10417
OVERHEAD (111%)	(25.7) 4534	17033	4047	4536	4576	4496	17646	4058	4511	4432	4208	17229.2
TOTAL COST OF SALES	(71.4) 12502	70.1% 46719	70.1% 9994	65.3 11341	62.5 11246	55.4 10857	63.7 43429	55.7 9208	55.8 10680	54.6 10805	53.4 10887	55.4 41565
GROSS PROFIT	(28.6) 4998	19908	4266	6019	6734	7743	24771	6471	8450	9000	9517	33455
%		29.9%	29.9	34.7	37.5	41.6	36.3	43	44.2	45.4	46.6	44.6
METALLIZED - NET SALES	—	—		75	150	375	600	900	1200	2000	3000	7100
COST OF SALES												
MATERIAL	—	—	(21.2)	16 (22.0)	33	(22.1) 83	(22.0) 132	(22.0) 198	(22.0) 264	(22.0) 440	(22.0) 660	(22.0) 1562
LABOR	—	—	(16.0)	12 (16.0)	24	(16.0) 60	(16.0) 96	(16.0) 144	(16.0) 192	(16.0) 320	(16.0) 480	(16.0) 1136
O/H	—	—	133%	16 142%	34	157% 94	141% 135	181% 260	172% 330	163% 522	153% 734	166% 1886
TOTAL COST OF SALES	—	—	58.7%	44 60.7%	91	63.2% 237	60.5% 363	66.5% 602	65.5% 786	64.6% 1282	62.5% 1874	64.6% 4584
GROSS PROFIT	—	—		31	59	138	237	298	414	718	1126	2516
%				41.3%	39.3	36.8	39.5	33.1	34.5	35.9	37.5	35.4
COMBINED ALL PRODUCTS N/S	17500	66627	14260	17435	18130	18975	68800	16579	20330	21805	23406	82120
COST OF SALES												
MATERIAL	(22.2) 3889	14141 20	2881 (19.7)	3436 (19.7)	3503	(18.8) 3580	(19.5) 13400	(18.7) 3106	(18.7) 3793	(18.8) 4094	(18.9) 4425	(18.8) 15418
LABOR	(23.3) 4079	15545 21.5	3066 (19.5)	3397 (17.7)	3224	(15.4) 2924	(19.3) 12611	(14.4) 2376	(13.9) 2832	(13.9) 3037	(14.1) 3276	(14.0) 11553
O/H (111%)	(25.9) 4534	17033 132%	4047 134%	4566 143%	4602	152% 4579	141% 17794	121% 4314	122% 4872	142% 4954	155% 5042	142% 19152
TOTAL COST OF SALES	(71.4) 12502	46719 70%	9994 65.4%	11379 62.3%	11329	56.2% 11033	63.7% 43505	58.7% 9806	54.2% 11497	55.4% 12087	54.5% 12763	56.2 46153
GROSS PROFIT	(28.6) 4998	19908	4266	6036	6801	7892	24995	6773	8833	9718	10643	35967
%		29.9%	29.9%	34.6%	37.5%	41.6%	36.3%	40.9%	43.4%	44.6%	45.5%	43.8%

022

NyTronics Components Group, Inc.
Combined Sales Forecast
Cost of Sales - Gross Profit
4th Qtr 1974 Thru 1976

EXHIBIT # 9

1 of 2

	4th Qtr 1974	1974 TOTAL	1st Qtr 1975	2nd Qtr 1975	3rd Qtr 1975	4th Qtr 1975	1975 TOTAL	1st Qtr 1976	2nd Qtr 1976	3rd Qtr 1976	4th Qtr 1976	1976 TOTAL
Cap-Ind. Rel. - Net Sales	17500	66627	14260	17360	17980	18600	68200	15279	19130	19805	20406	75020
Cost of Sales												
Material	(22.2) 3889	14141 (20)	2821 (19.7)	3420 (19.7)	3470	(18.8) 3497	(19.2) 13208	(18.5) 2908	(18.4) 3529	(18.4) 3654	(18.4) 3765	(18.4) 13856
Labor	(23.3) 4079	15545 (21.8)	3066 (19.5)	3385 (19.5)	3200	(15.4) 2864	(18.4) 12515	(14.3) 2242	(13.8) 2640	(13.8) 2719	(13.8) 2816	(13.8) 10417
Overhead (111%)	(25.4) 4534	17033	4047	4536	4576	4496	17646	4058	4511	4432	4308	17229
Total Cost of Sales	(71.4) 12502	104.1% 74671	70.1% 9994	63.3 11341	62.5 11246	55.4 10857	63.7 43429	55.7 9208	55.6 10630	54.6 10805	53.4 10889	55.4 41565
Gross Profit	(28.6) 4998	19956	4266	6019	6734	7743	24771	6471	8450	9000	9517	33455
%		29.9%	29.9	34.7	37.5	41.6	36.3	42.3	44.2	45.4	46.6	44.6
Metallized - Net Sales	—	—		75	150	375	600	900	1200	2000	3000	7100
Cost of Sales												
Material	—	—	(21.3)	16 (22.0)	33	(22.1) 83	(22.0) 132	(22.0) 198	(22.0) 264	(22.0) 440	(22.0) 660	(22.0) 1562
Labor	—	—	(16.0)	12 (16.0)	24	(16.0) 60	(16.0) 96	(16.0) 144	(16.0) 192	(16.0) 320	(16.0) 480	(16.0) 1136
O/H	—	—	133%	16 142%	34	157% 94	141% 135	181% 260	172% 330	163% 522	153% 734	166% 1856
Total Cost of Sales	—	—	58.7%	44 60.7%	91	63.2% 237	66.5% 363	66.9% 602	65.5% 786	64.6% 1282	62.5% 1874	64.6% 4574
Gross Profit	—	—		31	59	138	237	298	414	718	1126	2526
%				41.3%	39.3	36.8	39.5	33.1	34.5	35.9	37.5	35.6
Combined ALL Products N/S	17500	66627	14260	17435	18130	18975	68200	16579	20330	21805	23406	82120
Cost of Sales												
Material	(22.2) 3889	14141 20	2881 (19.7)	3436 (19.7)	3503	(18.8) 3580	(19.5) 13400	(18.7) 3106	(18.7) 3793	(18.8) 4094	(18.9) 4425	(18.8) 15418
Labor	(23.3) 4079	15545 21.8	3066 (19.5)	3397 (19.5)	3224	(15.4) 2924	(18.4) 12611	(14.4) 2386	(13.9) 2832	(13.9) 3039	(14.1) 3296	(14.0) 11553
O/H (111%)	(25.4) 4534	17033 132%	4047 134%	4566 142%	4602	157% 4579	141% 17779	121% 4314	172% 4872	142% 4954	153% 5042	146% 17182
Total Cost of Sales	(71.4) 12502	74671 79%	9994 65.4%	11399 62.5%	11329	58.4% 11033	63.7% 43305	58.7% 9806	56.6% 11497	55.4% 12087	54.5% 12763	56.2 46153
Gross Profit	(28.6) 4998	19956	4266	6036	6801	7892	24995	6773	8833	9718	10643	35967
%		29.9%	29.9%	34.6%	37.5%	41.6%	36.8%	40.8%	43.4%	44.6%	45.5%	43.8%

NyTronics Components Group, Inc. — Exhibit #9

Combined Sales Forecast

Cost of Sales - Gross Profit

1977 - 1978

		1ST QTR 1977	2nd QTR 1977	3rd QTR 1977	4TH QTR 1977	1977 TOTAL	1ST QTR 1978	2nd QTR 1978	3rd QTR 1978	4TH QTR 1978	1978 TOTAL
Cap. Ind. Rel. NET SALES		17247	21043	21785	22445	82520	18972	23147	23964	24691	90774
COST OF SALES											
MATERIAL	(18.45)	3182	3882	4019	4141	15225	3500	4271	4421	4555	16748
LABOR	(13.8)	2380	2904	3006	3097	11388	2618	3194	3307	3407	12527
OVERHEAD	152%	3618	137.0 3978	128 3548	123 3809	134 15260	120 3142	115 3673	111 3670	108 3680	113 14156
TOTAL COST OF SALES		9180	10764	10873	11047	41873	9260	11138	11398	11642	43431
GROSS PROFIT		8067	10279	10912	11398	40647	9712	12009	12566	13049	47343
		46.8%	48.8	50.0	50.1	49.3	51.2	51.9	52.4	52.8	52.2
METALLIZING - NET SALES		4500	6000	7500	8250	26250	9000	9750	10500	11250	40500
COST OF SALES											
MATERIAL	(22.0)	990	1320	1650	1815	5775	1980	2145	2310	2475	8910
LABOR	(16.0)	720	960	1200	1320	4200	1440	1560	1680	1800	6480
OVERHEAD	152%	1094	137 1315	128 1536	123 1624	134 5628	120 1728	115 1794	111 1865	108 1944	113 7332
TOTAL COST OF SALES		2804	3595	4386	4759	15603	5148	5499	5855	6219	22712
GROSS PROFIT		1696	2405	3114	3491	10647	3852	4251	4645	5031	17788
		37.7%	40.0	41.5	42.3	40.6	42.8	43.6	44.2	44.7	43.7
Combined ALL Products N/S		21747	27043	29285	30695	108770	27972	32897	34464	35941	131274
COST OF SALES											
MATERIAL	(19.2)	4172	(19.2) 5202	(19.4) 5669	(19.4) 5956	(19.2) 21000	(19.4) 5428	(19.2) 6416	(19.2) 6731	(19.4) 7030	(19.2) 25605
LABOR	(14.3)	3100	(14.3) 3864	(14.4) 4206	(14.4) 4417	(14.3) 15588	(14.3) 4058	(14.3) 4754	(14.3) 4987	(14.3) 5207	(14.3) 19007
OVERHEAD	156%	4704	127% 5297	127% 5537	127% 5444	127% 20730	120% 4872	115% 5455	111% 5546	108% 5628	113% 21501
TOTAL COST OF SALES		11976	14363	15412	15817	57418	14410	16625	17264	17865	66116
GROSS PROFIT		9771	12680	14025	14877	51352	13562	16272	17200	18076	65158
		44.9%	46.9%	47.9%	48.5%	47.2%	48.5%	49.5%	49.9%	50.3%	49.6%

Sellier & G&A

exhibit #10

	1975 1	2	3	4	YR	1976 1	2	3	4	YR	1977 1	2	3	4	YR	1978 1	2	3	4	YR
SALES	1476	1744	1813	1848	6880	1658	2033	2181	2341	8212	2175	2704	2949	3070	10877	2797	3490	3446	3594	13327
Sellier:																				
Commissions 4.5	64.2	78.5	81.6	85.4	309.7	74.6	91.5	98.1	105.3	369.5	97.9	121.7	131.8	138.2	489.6	125.9	148.1	155.1	164.7	590.8
2023.6	44.7	54.5	56.4	58.2	213.8	46.9	57.2	59.3	61.1	224.5	49.3	60.1	62.2	64.1	235.7	51.7	63.1	65.3	67.4	247.5
	108.9	133.0	138.0	143.5	523.5	121.5	148.7	157.4	166.4	594.0	147.2	181.8	194.0	202.3	725.3	177.6	211.2	220.4	229.1	838.3
	7.6	7.6	7.6	7.6	7.6	7.3	7.3	7.2	7.1	7.2	6.8	6.7	6.6	6.6	6.7	6.3	6.4	6.4	6.4	6.4
G&A																				
Salaries	37.4	44.2	44.2	44.2	170.0	41.1	48.6	48.6	48.7	187.0	45.2	53.6	53.6	53.6	206.0	50.0	59.0	59.0	59.0	227.0
Fringes 20%	7.5	8.8	8.8	8.8	33.9	8.2	9.7	9.7	9.7	37.3	9.0	10.7	10.7	10.7	41.1	10.0	11.8	11.8	11.8	45.4
Bad Debts .75%	10.7	13.0	13.6	14.2	51.5	12.4	15.2	16.4	17.6	61.6	16.3	20.3	22.0	23.0	81.6	21.0	24.7	25.8	27.0	98.5
Ins Comp	30.0	30.0	30.0	30.0	120.0	30.0	30.0	30.0	30.0	120.0	30.0	30.0	30.0	30.0	120.0	30.0	30.0	30.0	30.0	120.0
1978 105.1 Other Exp	23.0	28.1	29.0	29.9	110.0	25.3	30.9	31.9	32.9	121.0	27.8	33.9	35.1	36.2	133.0	30.5	37.2	38.5	39.8	146.0
	108.6	124.1	125.6	127.1	485.4	117.0	134.4	136.6	138.9	526.9	128.3	148.5	151.4	153.5	581.7	141.5	162.7	165.1	167.6	636.9
	7.6%	7.1%	6.9%	6.7%	7.1%	7.1%	6.2%	6.3%	5.9%	6.4%	5.9%	5.5%	5.2%	5.0%	5.3%	5.1%	4.9%	4.8%	4.7%	4.9%

Depreciation

Exhibit II

	4TH QTR	1975 1	2	3	4	YR	1976 1	2	3	4	YR	1977 1	2	3	4	YR	1978 1	2	3	4	YR
1974 Base	50.5					189.6					183.0					178.3					144.6
1/1/73 Additions	1.0					7.6					7.6					7.6					7.6
Additions Bal 1974 10 yrs 1/1/6, 1/10	11.3					11.6					11.6					11.6					11.6
F/Y 75 Additions 1,178,949	—					58.9					117.9					117.9					117.9
F/Y 1976 Additions 5 1/5, 6 1/1	—					—					16.3					51.6					51.6
F/Y 1977 Additions 41,380	—					—					—					1.1					4.1
	61.8	69.6	69.7	69.7	69.7	178.7	89.3	89.3	89.4	89.4	357.4	95.1	95.3	95.3	95.3	381.1	87.3	87.3	87.4	87.4	349.4
Monthly	10.9					13.1					19.8					31.8					19.1

FORM NO. 1127 GOLDSMITH BROS. N. Y. 10038 (212) 267-7900

MADE IN U.S.A.

	1974	1975	1976	1977	1978
1	9787	3138	413	704	87
2	7987	7987	7987	7987	7987
3	6356	5747	5593	4704	4484
4	341	138	—	—	—
5	1093	1093	544	—	—
6	1139	967	778	503	56
7	7334	7156	1317	510	704
8	5951	5951	5951	5951	3951
9	7550	7880	7880	7880	7550
10	10818	10818	10818	10818	10118
11	86798	86798	86798	86798	82737
12	3000	3000	3000	3000	7778
13	335	335	335	335	335
14	667	667	667	667	667
15	1360	1360	1360	1360	1360
16	13930	10489	9435	7584	4544
17	7671	7554	7531	7511	7489
18	5768	7710	1840	1775	790
19	797	797	797	797	16
20	7	7	7	7	175
21	7019	18956	18987	17830	14457

1974 Base Year

C.2

Exhibit #1

Nytronics Components Group Inc. 4 Year Forecast
Profit Statement

	F/Y 1975					F/Y 1976					F/Y 1977					F/Y 1978				
	1ST QTR	2ND QTR	3RD QTR	4TH QTR	TOTAL YR	1ST QTR	2ND QTR	3RD QTR	4TH QTR	TOTAL YR	1ST QTR	2ND QTR	3RD QTR	4TH QTR	TOTAL YR	1ST QTR	2ND QTR	3RD QTR	4TH QTR	TOTAL YR.
Sales																				
Capacitor / Inductor / Resistor	1420.0	1736.0	1798.0	1860.0	6820.0	1567.9	1913.0	1980.5	2040.6	7502.0	1744.7	2104.3	2178.5	2244.5	8272.0	1897.2	2314.7	2396.4	2469.1	9077.4
Metallized	—	7.5	15.0	37.5	60.0	90.0	140.0	200.0	300.0	730.0	450.0	600.0	750.0	875.0	2675.0	900.0	975.0	1050.0	1125.0	4050.0
Total Sales	1420.0	1743.5	1813.0	1897.5	6880.0	1657.9	2053.0	2180.5	2340.6	8232.0	2194.7	2704.3	2928.5	3069.5	10897.0	2797.2	3289.7	3446.4	3594.1	13,127.4
Cost of Sales																				
Mat'l	288.1 20.2	343.6 19.7	350.3 19.3	358.0 18.9	1340.0 19.5	310.6 18.7	379.3 18.7	409.4 18.8	445.5 18.9	1545.8 18.8	417.2 19.2	520.2 19.2	566.9 19.4	535.6 19.4	2099.9 19.3	548.0 19.6	641.6 19.5	473.1 14.5	703.0 19.6	2565.7 19.5
Labor	306.6 21.5	329.7 19.5	322.4 17.8	292.4 15.4	1261.1 18.3	238.6 14.4	283.2 13.9	303.9 13.9	349.6 14.1	1155.3 14.1	310.0 14.3	386.4 14.3	420.6 14.4	441.7 14.4	1558.7 14.3	405.8 14.5	475.4 14.5	498.7 14.5	520.7 14.5	1900.6 14.5
Overhead																				
Indirect Labor	139.2	169.8	174.3	176.1	659.4	152.7	184.2	186.0	187.8	710.7	167.4	196.2	196.2	196.2	756.0	171.0	199.8	201.6	203.4	775.8
Fringes 20%	89.2	101.9	99.3	93.7	384.1	78.3	93.5	98.0	103.5	373.3	95.5	116.5	123.4	127.6	463.0	115.4	135.0	140.1	144.8	535.3
Building Exp.	67.8	67.8	67.8	67.8	271.2	70.3	70.4	70.5	70.4	281.5	69.4	69.4	69.5	69.5	277.8	68.5	68.5	68.6	68.6	274.2
Depreciation	69.6	69.7	69.7	69.7	278.7	89.3	89.3	89.4	89.4	357.4	95.2	95.3	95.3	95.3	381.1	87.3	87.3	87.4	87.4	349.4
Other Overhead	33.9	47.4	49.1	50.6	181.0	40.8	49.8	51.6	53.1	195.3	47.9	54.3	54.1	55.8	205.1	45.0	54.9	56.9	58.6	215.4
Total Overhead	404.7 23.2%	452.6 23.4%	460.2 22.9%	457.9 15.7%	1777.4 19.9%	431.4 18.1%	487.2 17.7%	495.4 16.3%	504.2 15.3%	1918.2 16.6%	420.4 15.7%	549.7 17.7%	538.5 14.5%	544.4 14.3%	2083.0 14.9%	487.2 17.4%	545.5 16.5%	554.6 16.1%	564.8 15.7%	2150.1 16.3%
Total Cost of Sales	799.4	1139.9	1132.9	1108.3	4380.6	980.6	1149.7	1202.7	1276.3	4615.3	1177.6	1436.3	1526.0	1551.7	5741.6	1447.0	1662.5	1726.4	1786.5	6616.4
Gross Profit	476.6	603.6	680.1	789.2	2499.5	677.3	883.3	977.8	1064.3	3596.7	977.1	1267.0	1402.5	1517.8	5125.4	1350.2	1627.2	1720.0	1807.6	6511.0
% to Sales	29.9%	34.6%	37.5%	41.6%	36.3%	40.9%	43.0%	44.8%	45.5%	43.8%	44.5%	46.8%	47.9%	49.5%	47.0%	48.5%	49.5%	49.9%	50.3%	49.6%
Selling Exp.	108.9	133.0	138.0	142.6	522.5	121.5	148.7	157.4	166.4	594.0	147.2	181.8	194.0	202.3	725.3	177.6	211.2	220.4	229.1	838.3
%	7.6%	7.6	7.6	7.6	7.6	7.3	7.3	7.2	7.1	7.2	6.8	6.7	6.6	6.6	6.7	6.3	6.4	6.4	6.4	6.4
Administrative	108.4	129.1	125.6	127.1	485.2	117.0	134.4	136.6	138.9	526.9	128.3	148.5	151.4	153.5	581.7	141.5	162.7	165.1	167.6	636.9
%	7.6%	7.1	6.9	6.7	7.1	7.1	6.6	6.3	5.9	6.4	5.9	5.5	5.2	5.0	5.3	5.1	4.9	4.8	4.7	4.9
Total	217.5	262.1	263.6	270.7	1008.7	238.5	283.1	294.0	305.3	1120.9	275.5	330.3	345.4	355.8	1307.0	319.1	373.9	385.5	396.7	1475.2
%	15.3%	14.7	14.5	14.3	14.7	14.4	13.9	13.5	13.0	13.6	12.7	12.2	11.8	11.6	12.0	11.4	11.4	11.2	11.0	11.2
Other (net) (Exp)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Divisional Contribution	209.1 14.7%	341.5 19.1	416.5 23.0	513.5 27.3	1480.6 21.7	438.8 26.5	600.2 29.5	677.8 31.0	759.0 32.4	2476.8 30.2	701.6 31.3	937.7 34.7	1057.1 36.0	1132.0 37.0	3828.4 35.2	1031.1 37.0	1253.3 38.0	1334.5 38.7	1410.9 39.3	5031.8 38.4

FORM NO. 1127 GOLDSMITH BROS. N. Y. 10011 (213)

Page

Cash Flow - Nytronics Components Group Inc. 4 Year Forecast

Exhibit #2

1739.0

	1975 1st Qtr	1975 2nd Qtr	1975 3rd Qtr	1975 4th Qtr	1975 Total Yr	1976 1st Qtr	1976 2nd Qtr	1976 3rd Qtr	1976 4th Qtr	1976 Total Yr
Divisional Contribution	409.1	346.5	416.5	518.5	1490.6	438.8	600.2	677.8	759.0	2476.1
Depreciation	69.6	69.7	69.7	69.7	278.7	89.3	89.3	89.4	89.4	357.4
Cash Flow	478.7	416.2	486.2	588.2	1769.3	528.1	689.5	767.2	848.4	2833.2
Capital Expenditures	(348.2)	(470.9)	(410.0)	(169.8)	(1178.9)	(187.2)	(137.0)	(93.5)	(108.0)	(545.7)
Debt Principal Payments:										
Bond Issue	(66.0)	(66.0)	(66.0)	(66.0)	(264.0)	(66.0)	(66.0)	(66.0)	(66.0)	(264.0)
Aetna						–	(100.0)	(100.0)	(100.0)	(300.0)
Inventories	(10.0)	(10.0)	(15.0)	(25.0)	(60.0)	(25.0)	(25.0)	(25.0)	(25.0)	(100.0)
Accounts Receivable	(40.0)	(22.0)	(38.0)	92.0	(8.0)	113.0	(22.0)	(74.0)	(79.0)	(62.0)
Accounts Payable	5.0	5.0	10.0	10.0	30.0	10.0	10.0	10.0	10.0	40.0
Accrued Liabilities								(25.0)	(25.0)	(50.0)
Inter Co Payables	(240.0)	(240.0)	(240.0)	(240.0)	(960.0)	(300.0)	(300.0)	(300.0)	(300.0)	(1200.0)
	(400.5)	(187.7)	(272.3)	189.4	(671.6)	72.9	49.5	93.7	155.4	371.5

	1977 1st Qtr	1977 2nd Qtr	1977 3rd Qtr	1977 4th Qtr	1977 Total Yr	1978 1st Qtr	1978 2nd Qtr	1978 3rd Qtr	1978 4th Qtr	1978 Total Yr
Divisional Contribution	701.6	937.7	1057.1	1132.0	3828.4	1037.1	1273.3	1334.5	1410.9	5055.8
Depreciation	95.2	95.3	95.3	95.3	381.1	87.3	87.5	87.6	87.4	349.4
Cash Flow	796.8	1033.0	1152.4	1227.3	4209.5	1124.4	1340.6	1421.9	1498.3	5385.2
Capital Expenditures	(38.5)	(1.0)	(1.9)	–	(41.4)	–	–	–	–	–
Debt Principal Payments:										
Bond Issue	(66.0)	(66.0)	(66.0)	(66.0)	(264.0)	(66.0)	(66.0)	(66.0)	(66.0)	(264.0)
Aetna	–	(100.0)	(100.0)	(100.0)	(300.0)	(100.0)	(100.0)	(100.0)	(100.0)	(500.0)
Inventories	(50.0)	(50.0)	(50.0)	(50.0)	(200.0)	(75.0)	(75.0)	(75.0)	(75.0)	(300.0)
Accounts Receivable	(135.0)	47.0	13.0	170.0	365.0	(144.0)	33.0	(72.0)	(73.0)	(256.0)
Accounts Payable	(15.0)	(15.0)	(15.0)	(15.0)	(60.0)	20.0	22.0	24.0	29.0	95.0
Accrued Liabilities	–	(25.0)	(25.0)	(25.0)	(75.0)	(25.0)	(25.0)	(25.0)	(25.0)	(100.0)
Inter Co Payables	(300.0)	(300.0)	(300.0)	(300.0)	(1200.0)	(300.0)	(300.0)	(300.0)	(300.0)	(1200.0)
	194.3	429.0	581.5	601.3	1704.1	394.4	785.6	753.9	730.3	2664.2

650.0

Exhibit #3

Utilization of Bond Proceeds
Capital Equipment

Price Each	Acct #	Item Purchased Capacitor	4th Qtr 1974	1st Qtr 1975	2nd Qtr 1975	3rd Qtr 1975	4th Qtr 1975	1st Qtr 1976	2nd Qtr 1976	3rd Qtr 1976	4th Qtr 1976	1st Qtr 1977	2nd Qtr 1977	3rd Qtr 1977	Total
16,600	90	Midland Auto. Winders	66,400	49,800	49,800	16,600									182,600
6045	"	Knoessler Auto Winders	18,135	36,270	36,270	36,270	36,270	18,135							181,350
9,500	90	Mylar Wrapping Machines	28,500	28,500	28,500	28,500									114,000
600	"	Automatic Test Machine			2,000										2,000
12,500	"	Epoxy Fill Machine Epoxy		12,500		12,500									25,000
1200	"	Hydraulic Flattening Press			1,200										1,200
14000	"	Fluidized Bed Coating Equipment			14,000										14,000
4000	"	Painting Machine				4,000									4,000
32500	"	Winding Machines 00005"				32,500			32,500						65,000
300	"	Resin Dryer Tank		1,500											1,500
2200	"	Heated Holding Unit		2,200											2,200
3,000	"	Hydraulic Pumping System	3,000												3,000
	"	Total Project	116,035	131,770	131,770	131,370	36,270	18,135	32,500						597,850
	71	Transductor													
1187	71	Lattice Winding Machines		3,561	2,374	1,187	1,187	2,374	1,187						11,870
304	"	Universal Winders		304	2,412	304	1,608	1,608	304						6,140
9697	"	Automatic Toroid Winder		9,697		9,697									19,394
7500	"	" " Lead Solder Machine				7,500			7,500						15,000
1725		Gemini Shove Test Machine	1,700	1,700	1,695										5,095
5000	"	Automatic Sorting Equip			5,000		5,000								10,000
6000	"	New Molds	6,000	12,000											18,000
9500	"	Molding Preform Machine			9,000										9,000
6500	"	Hi-Freq. Preform " "	2,500												2,500
2000	"	Molding Liquid Hydraulic Syst.				2,000									2,000
2500	"	Liquid Molding Hyd. Press				2,500	2,500								5,000
1500	"	Liquid Molds			1,500	2,000	2,000	4,500	5,000						15,000
6000	"	Liquid Resin Mixer Dispenser				6,000									6,000
12000	"	Fluidized Bed Machine		12,000											12,000
12500	"	Thermal Shock Chamber	12,500												12,500
1900	"	H/P Indo Test. Bridge	4,700	1,700	1,700	1,700									11,400
		Total Project	26,400	41,662	23,871	25,588	13,295	8,482	12,971						162,277

Exhibit #4

Page 2 of 4

Exhibit of Bond Proceeds
Capital Equipment

Price each	Acct. #	Item Purchased	4th Qtr 1974	1st Qtr 1975	2nd Qtr 1975	3rd Qtr 1975	4th Qtr 1975	1st Qtr 1976	2nd Qtr 1976	3rd Qtr 1976	4th Qtr 1976	1st Qtr 1977	2nd Qtr 1977	3rd Qtr 1977	Total
		Resistor													
7440	72	Winding machine - Speedwinder		7440											7440
5000	"	Strip winding machine		5000		5000									10000
650	"	Electronic counters	1300	2600	3900	1300									9100
1550	"	Digital test bridge	1550			1550									3100
1425	"	Coating heads	1425	4275											5700
2151	"	Scrit separator - ceramic			2151										2151
5575	"	Mixer - blender " "			5575										5575
25000	"	Ceramic extruder				25000									25000
18000	"	Ceramic kiln				18000									18000
15000	"	Cut off machine diamond blade				15000									15000
2500	"	Tumbling machines				5000	10000								15000
25000	"	Centerless grinder					25000								25000
		Total Project	4275	19315	11626	70250	35000								140466
		New metallized capacitor													
6261	94	Kronsbow winding machine					12522	37566	37566	37566	31305				156525
2640	"	Test bridge		2640			2640								5280
5320	"	Bake oven (chart shown)		5320											5320
26080	"	Metallizing spray station			26080			26080			26080				78240
16415	"	Automatic lead welder					16415	16415	16415	16415	16415	16415			98490
21160	"	Sort - clean - cap test			21160		21160				21160				63480
21080	"	Epoxy coating machine			21080			21080				21080			63240
4495	"	Auto - printing machine				4495			4495		4495				13485
3480	"	Cap test bridge & standards			3480			3480		3480					10440
		Misc. fixtures + tooling			2500		2500		2500		2500				10000
		Total Project		7960	74300	4495	55237	104621	60976	57461	101955	37495			504510

Exhibit #5

UTILIZATION OF POOL PROCEEDS
LEASEHOLD IMPROVEMENTS

	Acct #	Item Purchased	4th Qtr 1974	1st Qtr 1975	2nd Qtr 1975	3rd Qtr 1975	4th Qtr 1975	1st Qtr 1976	2nd Qtr 1976	3rd Qtr 1976	4th Qtr 1976	1st Qtr 1977	2nd Qtr 1977	3rd Qtr 1977	Total
	74	Multiple Machinery			10,657		10,000		10,000						30,657
	43	Air Compressor				14,700									14,700
30012	"	Air Conditioning 200 Ton		32,000		35,000		32,000		20,000					119,000
	"	Roof Repairs (Exhibit)	11,700												11,700
	"	Roof Deck Repairs	18,300												18,300
	"	Roof Perimeter	25,000												25,000
	"	Roof Tiedown		15,000											15,000
	"	Vandalize		5,000											5,000
	"	Acquisition Adjoining Property	30,000												30,000
	"	Gravel & Blacktop-Parking Lot		30,000											30,000
	"	Install & Blacktop Road		15,000											15,000
	"	Seal Bldg. Brick openings	10,000												10,000
	"	Replace Window Openings		3,000											3,000
	"	Bldg. Repairs - Point up			7,000										7,000
	"	" " Paint Brick				12,000									12,000
	"	" " Stucco 3 sides				60,000									60,000
	"	" " Add rest rooms		5,000				5,000			5,000				15,000
	"	" " Main Power Switches	4,000				4,000								8,000
	"	" " Heating 2nd Floor		2,500											2,500
	"	" " " 4th "							5,000						5,000
	"	" " Dry Sprinkling Etch House			3,200										3,200
	"	" " " Boiler Room	2,500												2,500
	"	" " Remove Stack				25,000									25,000
	"	" " New Fire Escapes		3,500											3,500
	"	" Etch House Renovation	5,000	5,000	5,000	5,000									20,000
	"	" " " " Misc. Work				14,000	15,000	15,000	15,000						60,000
	"	Interior Renovations etc.	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	12,000
	"	Carpeting etc.		2,500	2,500										5,000
	"														
	"	Total Project	77,500	127,500	29,357	167,700	30,000	56,000	31,000	26,000	6,000	1,000	1,000	1,000	564,057

Exhibit #6

Utilization of Bond Proceeds
Capital Equipment - Leasehold Improvements
Summary

Acct. #		4th Qtr 1974	1st Qtr 1975	2nd Qtr 1975	3rd Qtr 1975	4th Qtr 1975	1st Qtr 1976	2nd Qtr 1976	3rd Qtr 1976	4th Qtr 1976	1st Qtr 1977	2nd Qtr 1977	3rd Qtr 1977	TOTAL
90	Capacitor	136035	131770	131770	131370	36270	18135	32500						597550
91	Induction	23470	41662	23881	35587	13245	7422	12451						162717
92	Resistor	4275	15315	11626	7035	3500								41751
93	Leasehold Improvements	7750	127500	29350	167700	30000	56000	31000	26000	6000	1000	1000	1825	584425
94	Metallized Capacitor		7770	74300	4495	55237	104621	60976	57461	101955	37495			504510
	Mortgage Payoff	527840												527840
	TOTAL	754050	328217	270927	410033	169302	187235	136727	93461	107955	38495	1000	1825	2500226
	STAGE of Completion													
	Capacitor	.194	.410	.635	.854	.915	.945	1.000						
	Induction	.173	.427	.570	.740	.872	.924	1.000						
	Resistor	.30	.167	.250	.752	1.000								
	Metallized	.0	.16	.160	.172	.281	.489	.610	.724	.926	1.000			
	STAGE of Completion													
	Dollars	142710	192747	167277	237708	84565	26617	44791						
	%	.165	.214	.185	.263	.094	.029	.050						902715
	Cumulative		341457	508734	746542	831107	857724	902715						
	%	.165	.378	.564	.827	.920	.950	1.00	1.00	1.00	1.00	1.00	1.00	
	TOTAL Planned Savings													
	Labor 40%													
	Mat. 10%													
		1.52	3.43	5.19	7.61	8.46	8.74	9.2						
	40 X 23 = 9.2 Labor	9.2 X .165	9.2 X .378	9.2 X .564	9.2 X .827	9.2 X .92	9.2 X .95	9.2 X 1.0						
	10 X 20.5 = 2.05 Mat	2.05 X .165	2.05 X .378	2.05 X .564	2.05 X .827	2.05 X .92	2.05 X .95	2.05 X 1.0						
		.338	.775	1.16	1.70	1.88	1.95	2.05						

Exhibit #7 Page

Metallized Capacity
Acceleration Forecast
End Objective 1,500,000 Pcs per month

Impact Stage of Completion Based Mech.
on % Labor & Material
Composite Group

Average Size Price .15¢ each

	4th Qtr. 1974	1st Qtr. 1975	2nd Qtr 1975	3rd Qtr 1975	4th Qtr 1975	1st Qtr 1976	2nd Qtr 1976	3rd Qtr 1976	4th Qtr 1976	1st Qtr 1977	2nd Qtr 1977	3rd Qtr 1977	4th Qtr 1977
Pcs Produced (1000's)			50.0	100.0	250.0	600.0	800.0	1333.3	2000.0	3000.0	4000.0	5000.0	5500.0
Net Sales	0	0	7.5	15.0	37.5	90.0	120.0	200.0	300.0	450.0	600.0	750.0	825.0
(Metallized C/S Labor 22%, Mat'l 36.16%, O/H 12.5%)													
Group Sales	16120	14260	12260	17980	18600	15679	19120	19505	20406	22417	21048	21785	22445
Comp Group C/S													
Material	20.5	20.2	19.7	19.3	18.8	18.6	18.55	17.95	17.95	17.95	17.95	17.95	17.95
Labor	22.0	21.5	19.5	17.8	15.4	14.5	14.3	12.8	12.8	12.8	12.8	12.8	12.8
O/H	1.10												
Mech. Program Stage of Comp.													
Impact on D/L	0	1.56	3.48	5.15	7.61	8.46	8.74	9.2					
" " Mat	0	.338	.775	1.16	1.70	1.87	1.95	2.05					
" " O/H													

Metallized Sales	1st Qtr 1978	2nd Qtr 1978	3rd Qtr 1978	4th Qtr 1978
Pcs	6000.0	6500.0	7000.0	7500.0
$	9000	9750	10500	11250
Group Sales	15972	23147	23964	24691
Comp Group C/S				
Material	17.45	17.45	17.45	17.45
Labor	12.8	12.8	12.8	12.8
O/H				
Mech Program Stage of Completion				
Impact on D/L	9.2	9.2	9.2	9.2
" " Mat	2.05	2.05	2.05	2.05
" " O/H				

782

Cash Flow Work Sheet

Exhibit #12

	1975 1	2	3	4	1976 1	2	3	4	1977 1	2	3	4	1978 1	2	3	4
Accounts Rec Av No Sales	570	581	604	633	663	678	727	780	870	901	910	1043	1119	1097	1149	1198
1975 60 Day Sales Ratio	1140	1162	1200	1108	995	1017	1091	1170	1305	1352	1365	1535	1679	1646	1724	1797
A/R Net Change	40	22	38	(92)	(113)	22	74	79	135	47	13	170	144	(33)	78	73
INVENTORY	1150	1160	1175	1200.0	1225	1250	1275	1300.0	1350	1400	1450	1500.0	1575	1650	1725	1800.0
1200.0																
1260.0	10.0	10.0	15.0	25.0	25.0	25.0	25.0	25.0	50.0	50.0	50.0	50.0	75.0	75.0	75.0	75.0
1325.0																
1339.0																
1460.0																
			30				40				60				95	
Accounts Payable 225	230.0	235.0	245.0	255.0	265.0	275.0	285.0	295.0	310.0	325.0	340.0	355.0	375.0	397.0	421.0	450.0
	5.0	5.0	10.0	10.0	10.0	10.0	10.0	10.0	15.0	15.0	15.0	15.0	20.0	22.0	24.0	29.0

FORM NO. 1127 GOLDSMITH BROS. N. Y. 10018 (212) 267-1900

783

Exhibit # 13

Combined
Indirect Labor Forecast

	4th Qtr 1977	1st Qtr 1975	2nd 1975	3rd 1975	4th 1975	1st 1976	2nd 1976	3rd 1976	4th 1976	1st 1977	2nd 1977	3rd 1977	4th 1977
Products													
Cap. Dd. Resistor Metallized	0	2	2	3	1	2	3	1	1	1	1	0	0
		8				7				2			
	1st Qtr 1978	2nd 1978	3rd 1978	4th 1978									
	1	1	1	1									
	4												
		3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
		-4.8	3.6	3.6	3.6								
			7.2	4.5	4.1								
			-4.8	11.7	1.8								
				-4.8	13.5	3.6							
						17.1	4.5						
					-4.8	-4.8	7.6	1.8					
							-4.8	7.3.4	1.8				
								-4.8	7.5.2	1.8			
									-4.8	7.7.0	1.8		
											7.8.8	—	
												7.8.8	—
													7.8.8
												1975 - 1	18 36
												2	18 37.4
												3	18 37.2
												4	18 36.0

	Will be changed to Bond Effort		
25%	R.D. Kaul	A	.4
25%	A. Dorn	A	.2
25%	D. Windham	A	.2
100%	W. Jones	A	1.0
100%	M. Clark	A	1.0
75%	W. Sicknitt	A	.5
100%	1- Toolmaker	A	.7
100%	1- Machinist	A	.8
~~100%~~	~~1- Apprentice~~	P	
			4.8 40

Building Expense

Exhibit #14

	1975	1976	1977	1978
Advertising Tower	5.9	7.0	7.5	7.5
Gas Ins	3.1	4.0	5.0	5.0
Pumping Taxes	6.4	100.0	100.0	100.0
Misc Bldg	4.7	25.0	30.0	20.0
Plant Maintenance (Chemicals)	4.0	45.4	46.5	49.4
		74.4	78.8	74.4

782

Contracts

SINKLER GIBBS SIMONS & GUÉRARD
PROFESSIONAL ASSOCIATION
ATTORNEYS & COUNSELLORS AT LAW
2 PRIOLEAU STREET
CHARLESTON, S. C. 29402

POST OFFICE BOX 340

TELEPHONE 722-3366
AREA CODE 803

March 25, 1974

Honorable P. C. Smith
State Auditor
Post Office Box 11333
Columbia, South Carolina 29211

Dear Pat:

Re: Proposed Darlington County, South Carolina, Industrial Revenue Bond Issue - Nytronics Components Group, Inc.

For your information, I enclose an outline of a proposed industrial revenue bond issue for Nytronics Components Group, Inc., including the available financial information. You will be receiving shortly directly from Ken Baker, the Darlington County Attorney, a Petition of the Darlington County Council with respect to this Bond issue, which we hope will be considered by the State Board at its meeting during the week of April 1.

Sincerely,

Teddy

TBG:jr
Enc.
CC: Kenneth Baker, Esq.
County Attorney
164 North Main Street
Darlington, South Carolina 29532

4/9 Called Teddy
- financial data weak - not audited.
- Agreed: Co. officers located in Darlington - Know representatives are in town. Teddy to arrange.

SINKLER GIBBS SIMONS & GUÉRARD
PROFESSIONAL ASSOCIATION
ATTORNEYS & COUNSELLORS AT LAW
2 PRIOLEAU STREET
CHARLESTON, S. C. 29402

POST OFFICE BOX 340

TELEPHONE 722-3366
AREA CODE 803

March 28, 1974

D. Kenneth Baker, Esq.
Baker & Etheridge
Attorneys at Law
Post Office Box 77
Darlington, South Carolina 29532

Dear Ken:

Re: $2,875,000 Darlington County, South Carolina, First Mortgage Industrial Revenue Bonds, Series 1974 (Nytronics Components Group, Inc. - Lessee)

Enclosed you will find the original and eleven copies of a Resolution to be adopted by the Darlington County Commission approving the captioned financing and authorizing the Petition to the State Budget and Control Board. I also enclose in a blue back the original Petition for execution by the Chairman and Clerk of the Darlington County Commission. Please forward the executed Petition directly to Pat Smith as soon as possible.

Sincerely,

Tbg

TBG:jr
Encs.
CC: Jerald H. Sklar, Esq.
Attorney at Law
2410 Sterick Building
Memphis, Tennessee 38103

Pat C. Smith, Esq.
State Auditor
Post Office Box 11333
Columbia, South Carolina 29211

A RESOLUTION

APPROVING THE FINANCING OF THE ACQUISITION, IMPROVEMENT AND FURTHER EQUIPPING OF CERTAIN MANUFACTURING FACILITIES IN DARLINGTON COUNTY (TO BE LEASED TO NYTRONICS COMPONENTS GROUP, INC.) THROUGH THE ISSUANCE OF TWO MILLION EIGHT HUNDRED SEVENTY-FIVE THOUSAND DOLLARS ($2,875,000) OF DARLINGTON COUNTY, SOUTH CAROLINA, FIRST MORTGAGE INDUSTRIAL REVENUE BONDS, SERIES 1974 (NYTRONICS COMPONENTS GROUP, INC. - LESSEE); AND AUTHORIZING THE PETITION TO THE STATE BUDGET AND CONTROL BOARD OF SOUTH CAROLINA FOR ITS APPROVAL OF SUCH UNDERTAKING PURSUANT TO ACT NO. 103 OF THE 1967 ACTS OF THE SOUTH CAROLINA GENERAL ASSEMBLY, AS AMENDED.

As an incident to the adoption of this Resolution, the Darlington County Commission (which is the governing body of Darlington County) (the County Board), has made the following findings:

1. Nytronics Components Group, Inc., a Delaware corporation (the Lessee) has proposed that the County Board undertake to finance the acquisition, improvement and further equipping of the Lessee's existing electronic components manufacturing facilities located in Darlington County, South Carolina, at an estimated cost of $2,585,000, including the payment of existing mortgages in the amount of approximately $528,000, through the issuance of Industrial Revenue Bonds pursuant to the authorization of Act No. 103 of the 1967 Acts of the South Carolina General Assembly, as amended (the Act). The Lessee has advised the County Board that its proposed improvement and expansion project is dependent upon the assistance which the County might render through the sale of $2,875,000 Industrial Revenue Bonds pursuant to the Act (the Bonds). The County Board has agreed so to finance the acquisition, improvement and further equipping of the said facilities (the said 7 1/2 acre plant site and the buildings, machinery and equipment constituting the said facilities, as improved and expanded, being hereinafter referred to as the Project), and adopts this Resolution to evidence its approval of the issuance of the Bonds as aforesaid and to authorize a petition to the State Budget and Control Board (the State Board) setting forth the facts required by Section 14 of the Act.

2. The County Board has determined that the Project will subserve the purposes of the Act and neither the Project nor the Bonds will give rise to any pecuniary liability of Darlington County or a charge against its general credit or taxing power.

3. The amount necessary to finance the Project is Two Million Eight Hundred Seventy-Five Thousand Dollars ($2,875,000).

4. Under the Lease to be entered into with the County Board, the Lessee will unconditionally agree to pay as rent the amount necessary to provide the annual payments of principal and interest on the Bonds.

5. The proposed Lease will also obligate the Lessee unconditionally to pay other costs in connection therewith and will contain an appropriate provision requiring the Lessee to pay in lieu of taxes, such amounts as would otherwise be paid if the Lessee owned the Project.

6. In view of the credit of the Lessee and its successful arrangements to effect a sale of the Bonds without the establishment of reserve funds for the payment of the principal and interest, no such reserve funds will be established.

7. The Lessee has advised the County Board that it has arranged for the sale of the Bonds which will bear interest at a rate of approximately 8% per annum and will be payable, in substantially equal, successive, annual installments of approximately $280,000, including principal and semi-annual interest, beginning in 1975, and continuing through 2000.

8. The Bonds will be issued as tax exempt bonds by virtue of an election to be made pursuant to the provisions of Section 103(c)(6)(A) and (D) of the Internal Revenue Code of 1954, as amended.

NOW, THEREFORE, BE IT RESOLVED BY THE DARLINGTON COUNTY COMMISSION, IN MEETING DULY ASSEMBLED:

That the County Board finds that the facts set forth above are in all respects true and correct, and on such basis determines to finance the Project above described, and to authorize the sale of the Bonds by Darlington County as aforesaid.

BE IT FURTHER RESOLVED:

That the Petition in form substantially as attached hereto be presented to the State Board to seek the approval required by Section 14 of the Act; and that said Petition shall be duly executed by the Chairman and attested by the Clerk of the County Board.

_____
Chairman

_____

_____

(SEAL) _____

_____

_____

_____
Constituting the Members of the
Darlington County Commission

Attest:

_____
Clerk

STATE OF SOUTH CAROLINA

COUNTY OF DARLINGTON

TO THE STATE BUDGET AND CONTROL BOARD OF SOUTH CAROLINA	)	P E T I T I O N

The Petition of Darlington County Commission (the County Board) respectfully shows:

1. The County Board is the governing body of Darlington County, South Carolina, as established by law, and such is the County Board referred to in Act No. 103 of the 1967 Acts of the South Carolina General Assembly, as amended (the Act).

2. The Act authorizes and empowers the County Board, if it shall comply with the provisions set forth in the Act, to acquire land, buildings, equipment, machinery and other improvements deemed necessary, suitable and useful by any manufacturing or processing enterprise, and in connection with such acquisition, to enlarge, improve and expand the same; to lease the same; and to finance the acquisition, enlargement, improvement and expansion of the same through the issuance of bonds payable from and secured by a pledge of the revenues to be derived from the leasing of such land, buildings, equipment and machinery and other improvements.

3. The County Board has agreed with Nytronics Components Group, Inc., a Delaware corporation (the Lessee) that the County Board will undertake to finance the acquisition, improvement and further equipping by the Lessee of the existing electronic components manufacturing facilities located in Darlington County, South Carolina, through the issuance of Industrial Revenue Bonds pursuant to the Act. In this connection, the County Board has agreed to purchase from the Lessee the Lessee's said existing facilities for a consideration equal to the balance due (estimated at $528,000) upon the mortgages now encumbering the said existing facilities and to finance

the improvement and further equipping of the said existing facilities; and the County Board has agreed to issue Two Million Eight Hundred Seventy-Five Thousand Dollars ($2,875,000) Darlington County, South Carolina, First Mortgage Industrial Revenue Bonds, Series 1974 (Nytronics Components Group, Inc. - Lessee) (the Bonds) pursuant to the Act in order to finance the said acquisition, improvement and further equipping of the said facilities which, when completed will continue as an electronic components manufacturing plant (the 7 1/2 acre plant site and the buildings, improvements, machinery and equipment constituting the said facilities, as improved and expanded, being hereinafter referred to as the Project).

4. The County Board is advised by the Lessee that the cost of acquiring the said facilities and the cost of improving and further equipping the same will amount to approximately $2,585,000; and, that therefore, in order to finance the acquisition, improvement and further equipping of the Project by the Lessee, including the costs and charges incident to the issuance and sale of the Bonds, it will be necessary that the County Board issue the Bonds in the principal amount of $2,875,000.

5. The Lessee's said existing facilities now employ 550 persons. When completed, the Project will employ approximately 200 persons in addition to those now employed.

6. For the reasons above set forth and hereafter disclosed, the County Board has found:

(a) The proposed Project will subserve the purposes of the Act.

(b) By reason of undertaking the Project no pecuniary liability will result to the County nor will there be a charge against its general credit or taxing power.

(c) The proposed Lease between the County Board and the Lessee will unconditionally obligate the Lessee to pay rent in an amount adequate to provide for the principal and interest payments on the Bonds which will bear interest at a rate to be

established of approximately 8% per annum and will be payable in substantially equal, successive, annual installments of approximately $280,000, including principal and semi-annual interest, beginning in 1975 through 2000.

(d) The Lessee has arranged for the sale of the Bonds to Wood Brothers-Peebles Investment, Inc., Memphis, Tennessee, without the creation of any reserve and, therefore, it is unnecessary to establish reserve funds for the payment of such principal and interest. The bonds will be sold at an 8% discount for $ 2,645,000 .

(e) The terms of the Lease will require the Lessee to carry proper insurance and to pay all costs of maintaining the Project in good repair.

7. Pursuant to Section 14 of the Act, the County Board sets forth the following information:

(a) The Project consists of the existing electronic components manufacturing facilities owned and operated by the Lessee in Darlington County, including the 7 1/2 acre plant site together with the improvements to be made thereto and the additional equipment to be installed therein and all of which constitute and will continue as facilities for the manufacture of electronic components.

(b) The Project, when completed, will provide employment for approximately 200 persons, in addition to the 550 persons now employed at the existing facilities. It is, therefore, believed that the Project will have an extremely beneficial effect upon the economy of the County and areas adjacent thereto.

(c) The cost of the entire Project will amount to approximately $2,875,000, including the cost of acquiring the said existing facilities, the proposed improvements and additional equipment and machinery, and all other expenses to be incurred in connection therewith.

8. The proposed Lease, will provide, among other things, the following:

(a) To finance the cost of the acquisition, improvement and further equipping of the Project, the County will issue

$2,875,000 Darlington County, South Carolina, First Mortgage Industrial Revenue Bonds, Series 1974 (Nytronics Components Group, Inc. - Lessee) (the Bonds). The Bonds will be secured by a pledge of the rents to be paid by the Lessee and will be further secured by a Trust Indenture, as authorized by Section 5 of the Act, to a bank yet to be named, as Trustee.

(b) The proceeds derived from the sale of the Bonds will be deposited with the Trustee and will be withdrawn on requisition of the Lessee and the County and applied solely for the payment of costs incident to the acquisition, improvement and further equipping of the Project, and the issuance of the Bonds.

(c) The Lease will contain a specific provision by which the Lessee will unconditionally agree to make payments to Darlington County, to any School District in Darlington County and to all other political units in which the Project is situated, in lieu of taxes, in such amounts as would result from taxes levied on the Project by Darlington County, by any such School District, and by said political units if the Project were owned by the Lessee, but with appropriate reductions similar to the tax reductions, if any, which would be afforded the Lessee were it the owner of the Project.

(d) The Lease will contain no provision imposing any pecuniary liability upon the County or which would create a charge upon its general credit or taxing power.

(e) The Lease will contain provisions which would provide for its amendment in order to make provision for the issuance of additional bonds under the conditions therein set forth and more fully set forth in the Indenture.

9. The proposed Trust Indenture will be in conventional form and constitute a forecloseable mortgage upon the Project. Included in the granting clause will be:

(a) All real property, equipment and machinery and interests therein, acquired or to be acquired for the Project.

(b) The right, title and interest of the County in the Lease.

(c) All rentals and revenues derived by the County under the Lease, except those payments to be made in lieu of taxes or by way of indemnification or attorneys fees.

The Indenture will make provision for the initial issuance of Two Million Eight Hundred Seventy-Five Thousand Dollars ($2,875,000) of Bonds to be secured thereunder. It will make provision for the issuance of additional bonds to the extent and in the manner to be set forth in the Indenture. It will provide for the payment and redemption of the Bonds, the establishment of a Bond Fund into which the proceeds of the rents payable by the Lessee are placed, and the use of said fund for the payment of the Bonds. It will impose upon the Lessee the obligation to pay, in addition to the moneys required for the payment of the principal and interest of the Bonds, all other costs and expenses resulting from the execution and delivery of the Indenture and the issuance of the Bonds pursuant thereto.

10. The proposed Lease and the proposed Trust Indenture will be in substantially the form heretofore used in the issuance of Industrial Revenue Bonds pursuant to the Act.

Upon the basis of the foregoing, the County Board respectfully prays:

That the State Budget and Control Board accept the filing of the Petition presented herewith and that it do, thereafter, and as soon as practicable, make its independent investigation of the Project and the terms and provisions of the Lease and the Indenture, as it deems advisable, and that thereafter, the said State Board make a finding that the proposed Project will promote the purpose of the Act and that it is reasonably anticipated to effect such result, and on the basis of such finding, that it does approve the Project, including changes in any details of the said financing as finally consummated which do not materially affect the said undertaking, and give published notice

of its approval in the manner set forth in Section 14 of the Act.

Respectfully submitted,

DARLINGTON COUNTY COMMISSION

(SEAL)

By _____
Chairman

By _____
Clerk

STATE OF SOUTH CAROLINA

COUNTY OF DARLINGTON

I, the undersigned, Clerk of the Darlington County Commission, Darlington County, South Carolina, DO HEREBY CERTIFY:

That the foregoing is a true, correct and verbatim copy of the Resolution unanimously adopted by the said Darlington County Commission at a duly called and regularly held meeting at which all members attended and remained throughout on _____ __, 1974.

That the said Resolution was offered by _____ and was seconded by _____, and the same is now in full force and effect and has not been modified, amended, repealed or rescinded.

IN WITNESS WHEREOF, I have hereunto set my Hand and the Seal of the said Darlington County Commission, Darlington County, South Carolina, this ____ day of _____, A. D., 1974.

_____
Clerk, Darlington County Commission

(SEAL)

A RESOLUTION Number 69

APPROVING THE FINANCING OF THE ACQUISITION, IMPROVEMENT AND FURTHER EQUIPPING OF CERTAIN MANUFACTURING FACILITIES IN DARLINGTON COUNTY (TO BE LEASED TO NYTRONICS COMPONENTS GROUP, INC.) THROUGH THE ISSUANCE OF TWO MILLION EIGHT HUNDRED SEVENTY-FIVE THOUSAND DOLLARS ($2,875,000) OF DARLINGTON COUNTY, SOUTH CAROLINA, FIRST MORTGAGE INDUSTRIAL REVENUE BONDS, SERIES 1974 (NYTRONICS COMPONENTS GROUP, INC. - LESSEE); AND AUTHORIZING THE PETITION TO THE STATE BUDGET AND CONTROL BOARD OF SOUTH CAROLINA FOR ITS APPROVAL OF SUCH UNDERTAKING PURSUANT TO ACT NO. 103 OF THE 1967 ACTS OF THE SOUTH CAROLINA GENERAL ASSEMBLY, AS AMENDED.

As an incident to the adoption of this Resolution, the Darlington County Commission (which is the governing body of Darlington County) (the County Board), has made the following findings:

1. Nytronics Components Group, Inc., a Delaware corporation (the Lessee) has proposed that the County Board undertake to finance the acquisition, improvement and further equipping of the Lessee's existing electronic components manufacturing facilities located in Darlington County, South Carolina, at an estimated cost of $2,585,000, including the payment of existing mortgages in the amount of approximately $528,000, through the issuance of Industrial Revenue Bonds pursuant to the authorization of Act No. 103 of the 1967 Acts of the South Carolina General Assembly, as amended (the Act). The Lessee has advised the County Board that its proposed improvement and expansion project is dependent upon the assistance which the County might render through the sale of $2,875,000 Industrial Revenue Bonds pursuant to the Act (the Bonds). The County Board has agreed so to finance the acquisition, improvement and further equipping of the said facilities (the said 7 1/2 acre plant site and the buildings, machinery and equipment constituting the said facilities, as improved and expanded, being hereinafter referred to as the Project), and adopts this Resolution to evidence its approval of the issuance of the Bonds as aforesaid and to authorize a petition to the State Budget and Control Board (the State Board) setting forth the facts required by Section 14 of the Act.

2. The County Board has determined that the Project will subserve the purposes of the Act and neither the Project nor the Bonds will give rise to any pecuniary liability of Darlington County or a charge against its general credit or taxing power.

3. The amount necessary to finance the Project is Two Million Eight Hundred Seventy-Five Thousand Dollars ($2,875,000).

4. Under the Lease to be entered into with the County Board, the Lessee will unconditionally agree to pay as rent the amount necessary to provide the annual payments of principal and interest on the Bonds.

5. The proposed Lease will also obligate the Lessee unconditionally to pay other costs in connection therewith and will contain an appropriate provision requiring the Lessee to pay in lieu of taxes, such amounts as would otherwise be paid if the Lessee owned the Project.

6. In view of the credit of the Lessee and its successful arrangements to effect a sale of the Bonds without the establishment of reserve funds for the payment of the principal and interest, no such reserve funds will be established.

7. The Lessee has advised the County Board that it has arranged for the sale of the Bonds which will bear interest at a rate of approximately 8% per annum and will be payable, in substantially equal, successive, annual installments of approximately $280,000, including principal and semi-annual interest, beginning in 1975, and continuing through 2000.

8. The Bonds will be issued as tax exempt bonds by virtue of an election to be made pursuant to the provisions of Section 103(c)(6)(A) and (D) of the Internal Revenue Code of 1954, as amended.

NOW, THEREFORE, BE IT RESOLVED BY THE DARLINGTON COUNTY COMMISSION, IN MEETING DULY ASSEMBLED:

That the County Board finds that the facts set forth above are in all respects true and correct, and on such basis determines to finance the Project above described, and to authorize the sale of the Bonds by Darlington County as aforesaid.

BE IT FURTHER RESOLVED:

That the Petition in form substantially as attached hereto be presented to the State Board to seek the approval required by Section 14 of the Act; and that said Petition shall be duly executed by the Chairman and attested by the Clerk of the County Board.

Harold L. Gardner
Chairman

S. Gordon Brown

A. Joe Willis

H. McCain Mooney

J. Graham Segars

Doris Hartley

Harold L. King

(SEAL)

Constituting the Members of the
Darlington County Commission

Attest:

Bessie S. Norwood
Clerk

STATE OF SOUTH CAROLINA

COUNTY OF DARLINGTON

TO THE STATE BUDGET AND CONTROL BOARD OF SOUTH CAROLINA	)	P E T I T I O N

The Petition of Darlington County Commission (the County Board) respectfully shows:

1. The County Board is the governing body of Darlington County, South Carolina, as established by law, and such is the County Board referred to in Act No. 103 of the 1967 Acts of the South Carolina General Assembly, as amended (the Act).

2. The Act authorizes and empowers the County Board, if it shall comply with the provisions set forth in the Act, to acquire land, buildings, equipment, machinery and other improvements deemed necessary, suitable and useful by any manufacturing or processing enterprise, and in connection with such acquisition, to enlarge, improve and expand the same; to lease the same; and to finance the acquisition, enlargement, improvement and expansion of the same through the issuance of bonds payable from and secured by a pledge of the revenues to be derived from the leasing of such land, buildings, equipment and machinery and other improvements.

3. The County Board has agreed with Nytronics Components Group, Inc., a Delaware corporation (the Lessee) that the County Board will undertake to finance the acquisition, improvement and further equipping by the Lessee of the existing electronic components manufacturing facilities located in Darlington County, South Carolina, through the issuance of Industrial Revenue Bonds pursuant to the Act. In this connection, the County Board has agreed to purchase from the Lessee the Lessee's said existing facilities for a consideration equal to the balance due (estimated at $528,000) upon the mortgages now encumbering the said existing facilities and to finance

the improvement and further equipping of the said existing facilities; and the County Board has agreed to issue Two Million Eight Hundred Seventy-Five Thousand Dollars ($2,875,000) Darlington County, South Carolina, First Mortgage Industrial Revenue Bonds, Series 1974 (Nytronics Components Group, Inc. - Lessee) (the Bonds) pursuant to the Act in order to finance the said acquisition, improvement and further equipping of the said facilities which, when completed will continue as an electronic components manufacturing plant (the 7 1/2 acre plant site and the buildings, improvements, machinery and equipment constituting the said facilities, as improved and expanded, being hereinafter referred to as the Project).

4. The County Board is advised by the Lessee that the cost of acquiring the said facilities and the cost of improving and further equipping the same will amount to approximately $2,585,000; and, that therefore, in order to finance the acquisition, improvement and further equipping of the Project by the Lessee, including the costs and charges incident to the issuance and sale of the Bonds, it will be necessary that the County Board issue the Bonds in the principal amount of $2,875,000.

5. The Lessee's said existing facilities now employ 550 persons. When completed, the Project will employ approximately 200 persons in addition to those now employed.

6. For the reasons above set forth and hereafter disclosed, the County Board has found:

(a) The proposed Project will subserve the purposes of the Act.

(b) By reason of undertaking the Project no pecuniary liability will result to the County nor will there be a charge against its general credit or taxing power.

(c) The proposed Lease between the County Board and the Lessee will unconditionally obligate the Lessee to pay rent in an amount adequate to provide for the principal and interest payments on the Bonds which will bear interest at a rate to be

established of approximately 8% per annum and will be payable in substantially equal, successive, annual installments of approximately $280,000, including principal and semi-annual interest, beginning in 1975 through 2000.

(d) The Lessee has arranged for the sale of the Bonds to Wood Brothers-Peebles Investment, Inc., Memphis, Tennessee, without the creation of any reserve and, therefore, it is unnecessary to establish reserve funds for the payment of such principal and interest. The bonds will be sold at an 8% discount for $ 2,645,000 .

(e) The terms of the Lease will require the Lessee to carry proper insurance and to pay all costs of maintaining the Project in good repair.

7. Pursuant to Section 14 of the Act, the County Board sets forth the following information:

(a) The Project consists of the existing electronic components manufacturing facilities owned and operated by the Lessee in Darlington County, including the 7 1/2 acre plant site together with the improvements to be made thereto and the additional equipment to be installed therein and all of which constitute and will continue as facilities for the manufacture of electronic components.

(b) The Project, when completed, will provide employment for approximately 200 persons, in addition to the 550 persons now employed at the existing facilities. It is, therefore, believed that the Project will have an extremely beneficial effect upon the economy of the County and areas adjacent thereto.

(c) The cost of the entire Project will amount to approximately $2,875,000, including the cost of acquiring the said existing facilities, the proposed improvements and additional equipment and machinery, and all other expenses to be incurred in connection therewith.

8. The proposed Lease, will provide, among other things, the following:

(a) To finance the cost of the acquisition, improvement and further equipping of the Project, the County will issue

$2,875,000 Darlington County, South Carolina, First Mortgage Industrial Revenue Bonds, Series 1974 (Nytronics Components Group, Inc. - Lessee) (the Bonds). The Bonds will be secured by a pledge of the rents to be paid by the Lessee and will be further secured by a Trust Indenture, as authorized by Section 5 of the Act, to a bank yet to be named, as Trustee.

(b) The proceeds derived from the sale of the Bonds will be deposited with the Trustee and will be withdrawn on requisition of the Lessee and the County and applied solely for the payment of costs incident to the acquisition, improvement and further equipping of the Project, and the issuance of the Bonds.

(c) The Lease will contain a specific provision by which the Lessee will unconditionally agree to make payments to Darlington County, to any School District in Darlington County and to all other political units in which the Project is situated, in lieu of taxes, in such amounts as would result from taxes levied on the Project by Darlington County, by any such School District, and by said political units if the Project were owned by the Lessee, but with appropriate reductions similar to the tax reductions, if any, which would be afforded the Lessee were it the owner of the Project.

(d) The Lease will contain no provision imposing any pecuniary liability upon the County or which would create a charge upon its general credit or taxing power.

(e) The Lease will contain provisions which would provide for its amendment in order to make provision for the issuance of additional bonds under the conditions therein set forth and more fully set forth in the Indenture.

9. The proposed Trust Indenture will be in conventional form and constitute a forecloseable mortgage upon the Project. Included in the granting clause will be:

(a) All real property, equipment and machinery and interests therein, acquired or to be acquired for the Project.

(b) The right, title and interest of the County in the Lease.

(c) All rentals and revenues derived by the County under the Lease, except those payments to be made in lieu of taxes or by way of indemnification or attorneys fees.

The Indenture will make provision for the initial issuance of Two Million Eight Hundred Seventy-Five Thousand Dollars ($2,875,000) of Bonds to be secured thereunder. It will make provision for the issuance of additional bonds to the extent and in the manner to be set forth in the Indenture. It will provide for the payment and redemption of the Bonds, the establishment of a Bond Fund into which the proceeds of the rents payable by the Lessee are placed, and the use of said fund for the payment of the Bonds. It will impose upon the Lessee the obligation to pay, in addition to the moneys required for the payment of the principal and interest of the Bonds, all other costs and expenses resulting from the execution and delivery of the Indenture and the issuance of the Bonds pursuant thereto.

10. The proposed Lease and the proposed Trust Indenture will be in substantially the form heretofore used in the issuance of Industrial Revenue Bonds pursuant to the Act.

Upon the basis of the foregoing, the County Board respectfully prays:

That the State Budget and Control Board accept the filing of the Petition presented herewith and that it do, thereafter, and as soon as practicable, make its independent investigation of the Project and the terms and provisions of the Lease and the Indenture, as it deems advisable, and that thereafter, the said State Board make a finding that the proposed Project will promote the purpose of the Act and that it is reasonably anticipated to effect such result, and on the basis of such finding, that it does approve the Project, including changes in any details of the said financing as finally consummated which do not materially affect the said undertaking, and give published notice

of its approval in the manner set forth in Section 14 of the Act.

Respectfully submitted,

DARLINGTON COUNTY COMMISSION

(SEAL)

By Harrell L. Gardner
Chairman

By Billie S. Norwood
Clerk

SINKLER GIBBS SIMONS & GUÉRARD
PROFESSIONAL ASSOCIATION
ATTORNEYS & COUNSELLORS AT LAW
2 PRIOLEAU STREET
CHARLESTON, S. C. 29402

POST OFFICE BOX 340

TELEPHONE 722-3366
AREA CODE 803

April 6, 1974

Honorable P. C. Smith
State Auditor
Post Office Box 11333
Columbia, South Carolina 29211

Dear Pat:

Re: $$2,875,000 Darlington County, South Carolina, First Mortgage Industrial Revenue Bonds, Series 1974 - Nytronics Components Group, Inc. - Lessee)

Enclosed you will find an original and ten copies of the Resolution to be considered by the State Board at its next meeting in connection with the issuance of the captioned bonds. You should have received by now direct from Mr. Ken Baker, the County Attorney, a Petition of the Darlington County Commission with respect to this bond issue.

After the Resolution has been adopted, please return ten certified copies to me.

Sincerely,

Teddy

TBG:jr
Encs.
CC: Kenneth Baker, Esq.
County Attorney
164 North Main Street
Darlington, South Carolina 29532

Jerald H. Sklar, Esq.
Waring, Cox, James, Sklar & Allen
Attorneys at Law
2410 Sterick Building
Memphis, Tennessee 38103

A RESOLUTION

APPROVING THE UNDERTAKING OF THE DARLINGTON COUNTY COMMISSION TO FINANCE THE ACQUISITION, IMPROVEMENT AND FURTHER EQUIPPING OF EXISTING FACILITIES FOR THE MANUFACTURE OF ELECTRIC COMPONENTS (TO BE LEASED TO NYTRONICS COMPONENTS GROUP, INC.) THROUGH THE ISSUANCE OF $2,875,000 DARLINGTON COUNTY INDUSTRIAL REVENUE BONDS PURSUANT TO ACT NO. 103 OF 1967, AS AMENDED, AND PROVIDING FOR THE PUBLICATION OF NOTICE OF SUCH APPROVAL.

ORIGINAL

WHEREAS, heretofore the Darlington County Commission, Darlington County, South Carolina, (the County Board) did, pursuant to Act No. 103 of the Acts of the General Assembly of the State of South Carolina for the year 1967, as amended, (the Act), petition the State Budget and Control Board of South Carolina (the State Board) seeking the approval of the State Board to an undertaking by the County Board pursuant to the Act; and

WHEREAS, the proposed undertaking consists of the acquisition by the County Board of a parcel of land containing approximately 7 1/2 acres located in Darlington County, South Carolina, together with the existing facilities located thereon, for the manufacture of electric components, now owned and operated by Nytronics Components Group, Inc., a Delaware corporation (the Lessee), and the improvement and further equipping of such facilities (said 7 1/2 acre tract of land, and the buildings, machinery and equipment constituting the said facilities, as improved and expanded, being hereinafter referred to as the Project) all of which is to be financed by the issuance of Bonds pursuant to the Act, and leased by the County Board to the Lessee; and

WHEREAS, in order to finance the acquisition, improvement and further equipping of the Project, the County Board proposes to provide for an issue of $2,875,000 Darlington County, South Carolina, First Mortgage Industrial Revenue Bonds pursuant to the Act payable from the rentals derived from the Lessee and additionally secured by a Trust Indenture between Darlington County and a bank yet to be named, as Trustee; and

NOW, THEREFORE, BE IT RESOLVED BY THE STATE BUDGET AND CONTROL BOARD IN MEETING DULY ASSEMBLED:

1. It has been found and determined by the State Board

(a) That the statement of facts set forth in the recitals to this Resolution are in all respects true and correct.

(b) That the County Board has filed a proper Petition to the State Board setting forth a brief description of the Project and its anticipated effect upon the economy of Darlington County and of the areas adjacent thereto, a reasonable estimate of the cost of the Project, a general summary of the terms and conditions of the Lease and the Trust Indenture to be made by the County Board and has established that the Lessee will pay as additional rentals, in lieu of taxes, the sums prescribed by Section 6 of the Act.

(c) That the Lessee's existing facilities now employ 550 persons. When completed, the Project will employ approximately 200 persons in addition to those now employed.

(d) That the Project is intended to promote the purposes of the Act and is reasonably anticipated to effect such results.

2. On the basis of the foregoing findings, the proposed undertaking of the County Board to acquire the land and existing facilities, to finance the improvement and further equipping of the said facilities for the manufacture of electric components, to lease the Project to the Lessee and to finance the cost of acquiring, improving and further equipping the Project through the issuance of $2,875,000 Darlington County, South Carolina, First Mortgage Industrial Revenue Bonds pursuant to the Act payable from the revenues to be derived from the leasing of the Project, and additionally secured by the said Trust Indenture, all pursuant to the Act (including changes in any details of the said financing as finally consummated which do not materially affect the said undertaking), be and the

same is hereby approved.

3. Notice of the action taken by the State Board in giving approval to the undertaking of Darlington County, South Carolina, above described in paragraph 2, supra, shall be published in THE STATE and in the Darlington NEWS AND PRESS, both of which are newspapers having general circulation in Darlington County.

4. That notice to be published shall be in form substantially as set forth as EXHIBIT "A" of this Resolution.

EXHIBIT "A"

NOTICE PURSUANT TO ACT NO. 103 OF THE ACTS OF THE GENERAL ASSEMBLY OF SOUTH CAROLINA FOR THE YEAR 1967, AS AMENDED

NOTICE is hereby given that following the filing of a Petition by the Darlington County Commission (the County Board) to the State Budget and Control Board of South Carolina (the State Board), approval has been given by the State Board to the following undertaking (including any changes in any details of the said financing as finally consummated which do not materially affect the said undertaking), viz:

The acquisition by the County Board of a parcel of land containing approximately 7 1/2 acres in Darlington County, South Carolina, together with the existing facilities located thereon, for the manufacture of electric components, now owned and operated by Nytronics Components Group, Inc., a corporation organized under the laws of the State of Delaware, (the Lessee), and the improvement and further equipping of said facilities, (said 7 1/2 acre tract of land, and the buildings, machinery and equipment constituting the said facilities, as improved and expanded, being hereinafter referred to as the Project). The existing facilities of the Lessee will be acquired by the County for a consideration equal to the balance due (estimated to be $525,000) upon the mortgages now encumbering the said existing facilities. To finance the acquisition, improvement and further equipping of the Project, the County Board will issue $2,875,000 Darlington County, South Carolina, First Mortgage Industrial Revenue Bonds, (the Bonds) pursuant to Act No. 103 of the Acts of the South Carolina General Assembly for the year 1967, as amended. The County Board will lease the Project to the Lessee and the Bonds will be payable solely from the rentals to be paid to the

County by the Lessee, which has irrevocably covenanted and agreed to pay when due, all sums required for the principal and interest thereon, and the Bonds will be additionally secured by a Trust Indenture which will constitute a forecloseable lien upon the Project.

In addition, the Lessee has agreed to pay to Darlington County, the School District, and all other political units wherein the Project is located, in lieu of taxes, such amounts as would result from taxes levied on the Project by Darlington County, the said School District, and the said other political units wherein the Project is situate, if the Project were owned by the Lessee, but with appropriate reductions similar to the tax exemptions, if any, which would be afforded to the Lessee if it were the owner of the Project.

The Lease by which Darlington County will lease the Project to the Lessee provides that the Lessee shall purchase the Project for One Dollar ($1.00) upon the payment in full of the Bonds.

The Lessee's existing facilities now employ 550 persons. When completed, the Project will employ approximately 200 persons in addition to those now employed.

Notice is further given that any interested party may at any time within twenty (20) days after the date of publication of this Notice, but not afterwards, challenge the validity of the action of the State Board in approving the undertaking of the County Board by action de novo instituted in the Court of Common Pleas for Darlington County.

THE STATE BUDGET AND CONTROL BOARD

By: P. C. SMITH, Secretary

PUBLICATION DATE:

APRIL ___, 1974.

EXHIBIT II
DEC. 3, 1974

A RESOLUTION

APPROVING THE UNDERTAKING OF THE BOARD OF COMMISSIONERS OF BARNWELL COUNTY TO FINANCE THE ACQUISITION, CONSTRUCTION AND EQUIPPING OF CERTAIN INDUSTRIAL MANUFACTURING FACILITIES FOR THE MANUFACTURE OF LADIES APPAREL (TO BE LEASED TO BLACKVILLE MANUFACTURING CORPORATION) THROUGH THE ISSUANCE OF $1,000,000 BARNWELL COUNTY, SOUTH CAROLINA, FIRST MORTGAGE INDUSTRIAL REVENUE BONDS PURSUANT TO ACT NO. 103 OF 1967, AS AMENDED, AND PROVIDING FOR THE PUBLICATION OF NOTICE OF SUCH APPROVAL.

ORIGINAL

WHEREAS, heretofore the Board of Commissioners of Barnwell County (the County Board) did pursuant to Act No. 103 of the Acts of the General Assembly of the State of South Carolina for the year 1967, as amended (the Act), petition the State Budget and Control Board of South Carolina (the State Board) seeking the approval of the State Board to an undertaking by the County Board pursuant to the Act; and

WHEREAS, Blackville Manufacturing Corporation, a South Carolina corporation (the Lessee) now operates two plants, one in the Town of Blackville in Barnwell County, South Carolina, and one in the Town of Springfield in Orangeburg County, South Carolina, for the manufacture of ladies apparel; and the proposed undertaking consists of the acquisition, construction and equipping of new facilities, into which the two existing plants will be combined, on a parcel of land in Barnwell County containing approximately 25 acres, (the said 25-acre parcel of land, together with the building to be constructed thereon, the new equipment and machinery to be acquired and installed therein, and certain used equipment and machinery to be transferred from the Lessee's existing plants, being hereinafter referred to as the "Project") all of which is to be financed by the issuance of Bonds pursuant to the Act, and leased by the County Board to the Lessee; and

WHEREAS, in order to finance the acquisition, construction and equipping of the Project, the County Board proposes to

provide for an issue of $1,000,000 Barnwell County, South Carolina, First Mortgage Industrial Revenue Bonds, pursuant to the Act payable from the rentals derived from the Lessee and additionally secured by a Trust Indenture between Barnwell County and a bank yet to be named, as Trustee, which will constitute a forecloseable lien on the Project, and the proceeds of the Bonds will be expended as follows: approximately $650,000 to construct the new 50,000 square foot building; approximately $300,000 to acquire and install the new equipment and machinery; and approximately $50,000 to defray the cost of issuing the Bonds. The used equipment and machinery included in the Project will be transferred by the Lessee to the County and included in the Project at no cost to the County.

WHEREAS, the obligation of Blackville Manufacturing Corporation under the Lease Agreement, including the payment of all rents and other sums to become due thereunder, will be unconditionally guaranteed by Tiffany Textiles, Inc., a Delaware corporation, and several other corporations yet to be designated (hereinafter collectively referred to as the "Guarantor"); and

WHEREAS, the form of the Lease Agreement between Barnwell County and Blackville Manufacturing Corporation, of the Trust Indenture and the Lease Guaranty Agreement have been considered by this Board.

NOW, THEREFORE, BE IT RESOLVED BY THE STATE BUDGET AND CONTROL BOARD IN MEETING DULY ASSEMBLED:

1. It has been found and determined by the State Board

(a) That the statement of facts set forth in the recitals to this Resolution are in all respects true and correct.

(b) That the County Board has filed a proper petition to the State Board setting forth a brief description of the Project and its anticipated effect upon the economy of Barnwell County and of the areas adjacent thereto, a reasonable estimate of the cost of the Project, a general summary of the terms and conditions of the Lease and Trust Indenture to be made by the County Board and has established that the Lessee will pay as additional rentals, in lieu of taxes, the sums prescribed by Section 6 of the Act.

(c) That the Project, when completed, will provide employment for 225 people in addition to the 275 people presently employed at the Lessee's two existing plants, and will be of benefit to Barnwell County and adjacent areas.

(d) That the Project is intended to promote the purposes of the Act and is reasonably anticipated to effect such results.

2. On the basis of the foregoing findings, the proposed undertakings of the County Board to acquire the 25-acre plant site, to finance the construction thereon of the proposed 50,000 square foot building, and the acquisition and installation of new equipment and machinery, to lease the Project to the Lessee and to finance the cost of acquiring, constructing and equipping the Project through the issuance of $1,000,000 Barnwell County, South Carolina, First Mortgage Industrial Revenue Bonds pursuant to the Act, payable from the revenues to be derived from the leasing of the Project, and additionally secured by the said Trust Indenture, and the unconditional guarantee of the Guarantor of all obligations of Blackville Manufacturing Corporation under the said Lease Agreement, including the payment of all rents and other sums to become due thereunder, (including changes in any details of the said financing as finally consummated which do not materially affect the said undertaking), be and the same is hereby approved.

3. Notice of the action taken of the State Board in giving approval to the undertaking of Barnwell County above described in paragraph 2, supra, shall be published in the BARNWELL PEOPLES SENTINEL and in THE STATE, both of which are newspapers having general circulation in Barnwell County.

4. That Notice to be published shall be in form substantially as set forth by Exhibit "A" of this Resolution.

EXHIBIT "A"

NOTICE PURSUANT TO ACT NO. 103 OF THE ACTS OF THE GENERAL ASSEMBLY OF SOUTH CAROLINA FOR THE YEAR 1967, AS AMENDED

Notice is hereby given that following the filing of a Petition by the Board of Commissioners of Barnwell County (the County Board) to the State Budget and Control Board of South Carolina (the State Board), approval has been given by the State Board to the following undertaking (including changes in any details of the said financing as finally consummated which do not materially affect the said undertaking), viz.:

The acquisition by the County Board of a parcel of land containing approximately 25 acre in Barnwell County, on which the County Board will cause to be constructed and equipped new facilities for the manufacture of ladies apparel. Blackville Manufacturing Corporation, a South Carolina corporation, (hereinafter referred to as the Lessee) now operates two plants, one in the Town of Blackville in Barnwell County, South Carolina, and one in the Town of Springfield in Orangeburg County, South Carolina. The two existing plants will be combined into the new facility to be constructed in Barnwell County, (the said 25-acre parcel of land, together with the building to be constructed thereon, the new equipment and machinery to be acquired and installed therein, and certain used equipment and machinery to be transferred from the Lessee's existing plants, being hereinafter referred to as the "Project"). To finance the acquisition, construction and equipping of the Project, the County Board will issue $1,000,000 Barnwell County, South Carolina, First Mortgage Industrial Revenue Bonds (the Bonds) pursuant to Act No. 103 of the Acts of the South Carolina

General Assembly for the year 1967. The County Board will lease the Project to the Lessee under a Lease Agreement and the Bonds of Barnwell County will be payable solely from the rentals to be paid to the County by the Lessee, which has irrevocably covenanted and agreed to pay when due, all sums required for the principal and interest thereon, and the Bonds will be additionally secured by a Trust Indenture which will constitute a forecloseable lien upon the Project. Tiffany Textiles, Inc., a Delaware corporation, and several other corporations yet to be designated, (hereinafter collectively referred to as the "Guarantor") will unconditionally guarantee the performance of all obligations of the Lessee under the said Lease Agreement, including the payment of all rents and other sums to become due thereunder.

In addition, the Lessee has agreed to pay as additional rentals to Barnwell County, South Carolina, the School District, and all other political units wherein the Project is located, in lieu of taxes, such amounts as would result from taxes levied on the Project by Barnwell County, the said School District, and the said other political units wherein the Project is situate, if the Project were owned by the Lessee, but with appropriate reductions similar to the tax exemptions, if any, which would be afforded to the Lessee if it were the owner of the Project.

The Lease by which Barnwell County will lease the Project to the Lessee will provide that the Lessee shall purchase the Project for One Dollar ($1.00) upon the payment in full of the Bonds.

When completed, it is estimated that the Project will provide employment for a total of 500 persons, including the 275 persons presently employed at the Lessee's two existing plants.

Notice is further given that any interested party may at any time within twenty (20) days after the date of publication of this Notice, but not afterwards, challenge the validity of the action of the State Board in approving the undertaking of the County Board by action de novo instituted in the Court of Common Pleas for Barnwell County.

THE STATE BUDGET AND CONTROL BOARD

By: P. C. SMITH, Secretary

Publication Date:

_____ __, 1974.

STATE OF SOUTH CAROLINA
OFFICE OF THE STATE AUDITOR
P. O. BOX 11333
COLUMBIA
29211

P. C. SMITH
STATE AUDITOR

TELEPHONE
(803) 758-3106

December 5, 1974

MEMORANDUM TO: Honorable Grady L. Patterson, Jr., State Treasurer

FROM: P. C. Smith, State Auditor

SUBJECT: Barnwell County Industrial Revenue Bonds ($1,000,000) for Tiffany Textiles, Inc.

You will recall that at the Board meeting December 3 the proposed issuance of the above bonds was approved, conditioned upon subsequent approval by the two of us.

I have looked over the attached financial data submitted with the petition and find no objection.

Please let me know your position.

I Concur
Grady L Patterson
Dec 6, 1974

PCS:dr

Enclosure

STATE OF SOUTH CAROLINA

COUNTY OF BARNWELL

TO THE STATE BUDGET AND CONTROL BOARD OF SOUTH CAROLINA	P E T I T I O N

The Petition of the Board of Commissioners of Barnwell County (the County Board) respectfully shows:

1. The County Board is the governing body of Barnwell County, South Carolina, as established by law, and as such is the County Board referred to in Act No. 103 of the South Carolina General Assembly enacted at its 1967 Session, as amended (the Act).

2. The Act authorizes and empowers the County Board, if it shall comply with the provisions set forth in the Act, to acquire land, buildings, equipment, machinery and other improvements deemed necessary, suitable and useful by any manufacturing or processing enterprise; to lease the same and to finance such acquisition, construction and equipping through the issuance of bonds payable from and secured by a pledge of the revenues to be derived from the leasing of such land, buildings, equipment and machinery and other improvements.

2. Blackville Manufacturing Corporation, a South Carolina corporation, (a wholly-owned subsidiary of Highlander Limited, a North Carolina corporation, which is, in turn, a wholly-owned subsidiary of Tiffany Textiles, Inc., a Delaware corporation), now operates two plants, one in the Town of Blackville in Barnwell County, South Carolina, and one in the Town of Springfield in Orangeburg, South Carolina, for the manufacture of ladies apparel. The said Tiffany Textiles, Inc., (the Lessee)

proposes to acquire, construct and equip new facilities, into which the two existing plants will be combined, on a parcel of land located in Barnwell County containing approximately 52 acres. The Lessee has proposed that the County Board undertake to finance the acquisition, construction and equipping of the new facilities, including the 52-acre plant site, through the issuance of $1,000,000 Barnwell County, South Carolina, First Mortgage Industrial Revenue Bonds (the Bonds) pursuant to the authorization of the Act. The Lessee has advised the County Board that its proposed new facilities are dependent upon the assistance which the County might render through the sale of $1,000,000 Industrial Revenue Bonds pursuant to the Act. The County Board has agreed to so finance the acquisition, construction and equipping of the said new facilities (the said 52-acre tract of land, together with the building to be constructed thereon, the new equipment and machinery to be acquired and installed therein and certain used equipment and machinery to be transferred from the said existing plants being hereinafter referred to as the "Project"), and the County Board has agreed to issue One Million Dollars ($1,000,000) Barnwell County, South Carolina, First Mortgage Industrial Revenue Bonds, Series 1974, pursuant to the Act in order to finance the acquisition, construction and equipping of the Project which, when completed, will constitute facilities for the manufacture of ladies apparel.

4. The County Board is advised by the Lessee that the cost of acquiring the said land and the cost of constructing the proposed 50,000 square foot building thereon will be $650,000, the cost of new equipment and machinery to be installed thereon and therein will be $300,000; and that, therefore, in order to finance the Project, including the

costs and charges incident to the issuance and sale of the Bonds hereinafter described, it will be necessary that the County Board issue One Million Dollars ($1,000,000) Barnwell County, South Carolina, First Mortgage Industrial Revenue Bonds, Series 1974 (the Bonds). The used equipment and machinery included in the Project will be transferred to the County and included in the Project at no cost to the County.

5. The two existing plants now operated by the Lessee employ a total of 275 people. When completed, the Project will employ about 500 people, an increase of 225 people.

6. For the reasons above set forth and hereafter disclosed, the County Board has found:

(a) The proposed Project will subserve the purposes of the Act, and will have a beneficial effect upon the economy of the County and of the areas adjacent thereto.

(b) By reason of undertaking the Project, no pecuniary liability will result to the County nor will there be a charge against its general credit or taxing power.

(c) The proposed Lease between the County and the Lessee will unconditionally obligate the Lessee to pay rent in an amount adequate to provide for the principal and interest payments on the Bonds which will bear interest at a rate to be established not to exceed 9 3/4% per annum, payable semi-annually, and will mature in the years 1975 through 1994 as follows:

June 1 In the Year	Principal Amount Maturing
1975	$ 25,000
1976	30,000
1977	30,000
1978	30,000
1979	35,000
1980	35,000
1981	40,000
1982	40,000
1983	45,000
1984	45,000
1985	50,000

1986	55,000
1987	55,000
1988	60,000
1989	60,000
1990	65,000
1991	70,000
1992	75,000
1993	75,000
1994	80,000

The foregoing maturity schedule is subject to change.

7. The Lessee has advised the County Board that it has arranged for the sale of the Bonds to McCarley & Company, Inc., at a discount not to exceed 6 1/2%.

8. The performance of all of the Lessee's obligations under the said Lease, including the payment of all rents and other sums to become due thereunder, will be unconditionally guaranteed by Highlander Limited, a North Carolina corporation, and other subsidiaries of the Lessee (hereinafter collectively referred to as the "Guarantors").

9. In view of the arrangements whereby McCarley & Company, Inc., has agreed to purchase the Bonds without requiring the establishment of any reserve fund, the County Board has determined that no reserve fund need be established.

10. The terms of the Lease will require the Lessee to carry proper insurance and to pay all costs of maintaining the Project in good repair and to pay, in lieu of taxes, such amounts as would otherwise be paid if the Lessee owned the Project.

11. Pursuant to Section 14 of the Act, the County Board sets forth the following information:

(a) The Project to be undertaken consists of the acquisition of a parcel of land located in Barnwell County, containing approximately 52 acres, on which is to be constructed new facilities for the manufacture of ladies apparel, and the acquisition and installation of new equipment and ma-

chinery thereon and therein and certain used equipment and machinery which will be transferred from the said existing plants.

(b) The two existing plants now operated by the Lessee employ a total of 275 people. When completed, the Project will provide employment for approximately 500 persons, an increase of 225 people. It is, therefore, anticipated to have a beneficial effect upon the economy of the County and the areas adjacent thereto.

(c) The cost of the entire Project will amount to approximately $1,000,000, including the cost of acquiring the site, the construction of the new 50,000 square foot building and the acquisition and installation of the new machinery and equipment, and all other expenses to be incurred in connection therewith. The used equipment and machinery included in the Project will be transferred to the County and included in the Project at no cost to the County.

12. The proposed Lease will provide, among other things, the following:

(a) To finance the cost of the acquisition, construction and equipping of the Project, the County will issue $1,000,000 Barnwell County, South Carolina, First Mortgage Industrial Revenue Bonds, Series 1974 (Tiffany Textiles, Inc. - Lessee) (the Bonds). The Bonds will be secured by a pledge of the rents to be paid by the Lessee and will be further secured by a Trust Indenture, as authorized by Section 5 of the Act, to a bank yet to be named, as Trustee.

(b) The proceeds derived from the sale of the Bonds will be deposited with the Trustee and will be withdrawn on requisition of the Lessee and the County and applied solely for the payment of costs incident to the acquisition, construction and equipping of the Project and the issuance of the Bonds.

(c) The Lease will contain a specific provision by which the Lessee will unconditionally agree to make payments to Barnwell County, to any School District in Barnwell County and to all other political units in which the Project is situated, in lieu of taxes, in such amounts as would result from taxes levied on the Project by Barnwell County, by any such School District, and by said political units if the Project were owned by the Lessee, but with appropriate reductions similar to the tax reductions, if any, which would be afforded the Lessee were it the owner of the Project.

(d) The Lease will contain no provision imposing any pecuniary liability upon the County or which would create a charge upon its general credit or taxing power.

(e) The Guarantors will enter into an agreement (the Lease Guaranty Agreement) with the County which will be attached to the said Lease pursuant to which the Guarantor will unconditionally guarantee the performance of all of the obligations of the Lessee under the said Lease, including the payment of all rentals and other amounts to become due.

13. The proposed Trust Indenture will be in conventional form and constitute a forecloseable mortgage upon the Project. Included in the granting clause will be:

(a) All real property, including easements, equipment and machinery and interests therein, acquired or to be acquired for the Project.

(b) The right, title and interest of the County in the Lease.

(c) The right, title and interest of the County in the Lease Guaranty Agreement.

(d) All rentals and revenues derived by the County under the Lease and Lease Guaranty Agreement, except those payments to be made in lieu of taxes or by way of indemnification, or attorneys fees.

The Indenture makes provision for the issuance of One Million Dollars ($1,000,000) of Bonds to be secured thereunder. It provides for the payment and redemption of the Bonds, the establishment of a Bond Fund into which the proceeds of the rents payable by the Lessee are placed, and the use of said fund for the payment of the Bonds. It imposes upon the Lessee the obligation to pay, in addition to the moneys required for the payment of the principal and interest of the Bonds, all other costs and expenses resulting from the execution and delivery of the Indenture and the issuance of the Bonds pursuant thereto.

14. The proposed Lease and Lease Guaranty Agreement and the proposed Trust Indenture will be in substantially the form heretofore used in the issuance of Industrial Revenue Bonds pursuant to the Act.

Upon the basis of the foregoing, the County Board respectfully prays:

That the State Budget and Control Board accept the filing of the Petition presented herewith and that it do, thereafter, and as soon as practicable, make its independent investigation of the Project and the terms and provisions of the Lease, the Lease Guaranty Agreement and the Trust Indenture, as it deems advisable, and that thereafter, the said State Board make a finding that the proposed Project will promote the purpose of the Act and that it is reasonably anticipated to effect such result, and on the basis of such finding, that it does approve the Project, including changes in any details of the said financing as finally consummated which do not materially affect the said undertaking, and give published notice of its approval in the manner set forth in Section 14 of the Act.

Respectfully submitted,

(SEAL) BARNWELL COUNTY, SOUTH CAROLINA

By T. E. Richardson
Chairman, Board of Commissioners
of Barnwell County

Attest:

Peggy D. Kinhart

Clerk, Board of Commissioners
of Barnwell County

November 13, 1974.

STATE OF SOUTH CAROLINA

COUNTY OF BARNWELL

I, the undersigned, Clerk of the Board of Commissioners of Barnwell County, South Carolina, DO HEREBY CERTIFY:

That the foregoing is a true, correct and verbatim copy of the Resolution unanimously adopted by the said Board of Commissioners of Barnwell County at a duly called and regularly held meeting at which all members attended and remained throughout on October 30, 1974.

That the said Resolution was offered by G. Larry Inabinet, and seconded by Robert D. Carlen, and the same is now in full force and effect and has not been modified, amended, repealed or rescinded.

IN WITNESS WHEREOF, I have hereunto set my Hand and the Official Seal of the said Board of Commissioners of Barnwell County, South Carolina, this 13th day of November, A. D., 1974.

Peggy M. Rhinehart
Clerk, Board of Commissioners of
Barnwell County, South Carolina

(SEAL)

BLATT, FALES, PEEPLES, BEDINGFIELD & LOADHOLT
ATTORNEYS AT LAW
BARNWELL, SOUTH CAROLINA 29812

SOLOMON BLATT
IRA FALES (1894-1965)
RODNEY A. PEEPLES
WALTER BEDINGFIELD
MILES LOADHOLT
J. TERRY POOLE

TELEPHONE
803/259-3525
P. O. BOX 365

November 21, 1974

Honorable P. C. Smith
State Auditor
Post Office Box 11333
Columbia, South Carolina 29211

Re: $1,000,000 Barnwell County Industrial Revenue Bonds:
Tiffany Textiles

Dear Mr. Smith:

I am forwarding to you the unaudited financial statement of Tiffany Textiles dated June 29, 1974 for your information and benefit with regard to the Budget and Control Board meeting on this particular issue.

If I can provide any further information, I will be most happy to do so.

Sincerely,

Terry Richardson

Terry E. Richardson, Jr.

TERJr./whb

Enclosure

cc: Theodore B. Guerard
Al Pera
Tommy Boulware
Tom Kepley

Also enclosed is the audited 1973 statement.

Bank aim Sales as highlights

need Blackville because having to contact under 21

TIFFANY TEXTILES, INC. AND SUBSIDIARY COMPANIES

UNAUDITED CONSOLIDATED FINANCIAL STATEMENTS

JUNE 29, 1974

TIFFANY TEXTILES, INC. AND SUBSIDIARY COMPANIES

JUNE 29, 1974

INDEX

TIFFANY TEXTILES, INC. AND SUBSIDIARY COMPANIES

UNAUDITED CONSOLIDATED BALANCE SHEET

JUNE 29, 1974

ASSETS

CURRENT ASSETS:	
Cash	$ 117,880
Accounts Receivable:	
Trade	207,018
Inventories:	
Finished Goods	8,263,270
Work-in-process	4,311,401
Fabric-in-process	4,344,814
Yarn and Other Raw Materials	1,998,138
Supplies and Findings	2,065,748
	20,983,371
Other Current Assets	566,764
Total Current Assets	21,875,033
PROPERTY, PLANT, AND EQUIPMENT:	
Land	128,348
Building and Building Equipment	5,132,768
Machinery and Equipment	11,280,417
Office, Showroom, and Equipment	832,618
Automotive Equipment	216,737
Machinery Deposits	69,736
	17,660,624
Less: Accumulated Depreciation	5,128,811
Property, Plant, and Equipment - Net	12,531,813
DEFERRED CHARGES AND OTHER ASSETS:	
Deferred Charges	1,259,355
Other Assets	561,188
Total Deferred Charges and Other Assets	1,820,543
TOTAL	$ 36,227,389

LIABILITIES AND STOCKHOLDER'S EQUITY

CURRENT LIABILITIES:	
Notes Payable - Bank	$ 500,000
Accounts Payable:	
Trade	4,529,988
Factor	689,654
Accrued Wages and Expenses	547,512
Long-term Debt Due within One Year	1,762,199
Federal Income and Other Taxes	1,021,705
Total Current Liabilities	9,051,058
DEFERRED FEDERAL INCOME TAXES	2,169,991
LONG-TERM DEBT	7,983,023
SUBORDINATED DEBT AND STOCKHOLDER'S EQUITY:	
Subordinated Debt	8,500,000
Stockholder's Equity:	
Common Stock, $.10 par value (authorized 1,000,000 shares, outstanding 125,000)	12,500
Paid-in Capital	1,737,500
Retained Earnings	6,773,317
Stockholder's Equity	8,523,317
Subordinated Debt and Stockholder's Equity	17,023,317
	$ 36,227,389

TIFFANY TEXTILES, INC. AND SUBSIDIARY COMPANIES

UNAUDITED STATEMENT OF CONSOLIDATED INCOME AND RETAINED EARNINGS

FOR THE 26 WEEKS ENDED JUNE 29, 1974

Net Sales	$ 28,644,261
Cost of Sales	20,105,052
Gross Profit	8,539,209
Selling and Administrative Expenses	4,473,703
Interest, Factoring Charges, etc.	2,085,768
Total	6,559,471
Operating Income	1,979,738
Other Expenses	(114,259)
Income before Federal Income Taxes	1,865,479
Federal Income Taxes:	
Current	582,030
Deferred	313,400
Total	895,430
Net Income	970,049
Retained Earnings Beginning of Period	5,803,268
Retained Earnings End of Period	$ 6,773,317

HASKINS & SELLS
CERTIFIED PUBLIC ACCOUNTANTS

2000 JEFFERSON FIRST UNION PLAZA
CHARLOTTE, NORTH CAROLINA 28282

AUDITORS' OPINION

Tiffany Textiles, Inc.:

We have examined the consolidated balance sheet of Tiffany Textiles, Inc. and subsidiary companies as of December 29, 1973 and the related statements of consolidated income and retained earnings and changes in consolidated financial position for the fiscal year then ended. Our examination was made in accordance with generally accepted auditing standards, and accordingly included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

In our opinion, the above-mentioned financial statements present fairly the financial position of the companies as of December 29, 1973 and the results of their operations and changes in their financial position for the fiscal year then ended, in conformity with generally accepted accounting principles applied on a basis consistent with that of the preceding year.

Haskins & Sells

March 7, 1974.

TIFFANY TEXTILES, INC.

CONSOLIDATED BALANCE S

ASSETS

CURRENT ASSETS:		
Cash		$ 518,188
Accounts receivable:		
Trade, etc. (less $35,000 allowance for doubtful accounts) (Note 2)	$ 213,480	
Factor (Note 2)	1,050,455	1,263,935
Inventories (Note 2):		
Finished goods	7,763,489	
Work in process	4,040,015	
Fabric in process	4,847,896	
Yarn and other raw materials	1,181,611	
Supplies and findings	1,969,930	19,802,941
Other current assets		471,993
Total current assets		22,057,057
PROPERTY (Note 1):		
Land	118,348	
Building and building improvements	4,074,948	
Machinery and equipment	9,713,938	
Office, showroom and equipment	809,645	
Automotive equipment	216,618	
Machinery deposits	14,623	
Total	14,948,120	
Less accumulated depreciation	4,494,370	
Property, net		10,453,750
DEFERRED CHARGES (Notes 1 and 3)		1,539,724
OTHER ASSETS		597,542
TOTAL		$34,648,073

See notes to final

TIFFANY TEXTILES, INC.

CONSOLIDATED BALANCE S

ASSETS

CURRENT ASSETS:		
Cash		$ 518,188
Accounts receivable:		
Trade, etc. (less $35,000 allowance for doubtful accounts) (Note 2)	$ 213,480	
Factor (Note 2)	1,050,455	1,263,935
Inventories (Note 2):		
Finished goods	7,763,489	
Work in process	4,040,015	
Fabric in process	4,847,896	
Yarn and other raw materials	1,181,611	
Supplies and findings	1,969,930	19,802,941
Other current assets		471,993
Total current assets		22,057,057
PROPERTY (Note 1):		
Land	118,348	
Building and building improvements	4,074,948	
Machinery and equipment	9,713,938	
Office, showroom and equipment	809,645	
Automotive equipment	216,618	
Machinery deposits	14,623	
Total	14,948,120	
Less accumulated depreciation	4,494,370	
Property, net		10,453,750
DEFERRED CHARGES (Notes 1 and 3)		1,539,724
OTHER ASSETS		597,542
TOTAL		$34,648,073

See notes to fina

ND SUBSIDIARY COMPANIES

EET, DECEMBER 29, 1973

LIABILITIES AND STOCKHOLDER'S EQUITY

CURRENT LIABILITIES:		
Notes payable - Bank		$ 500,000
Accounts payable - Trade		4,298,888
Accrued wages and expenses		1,102,844
Long-term debt due within one year		1,115,684
Federal income and other taxes (Note 1)		1,172,665
Total current liabilities		8,190,081
DEFERRED FEDERAL INCOME TAXES (Note 1)		1,856,591
LONG-TERM SENIOR DEBT (Note 4)		8,548,132
SUBORDINATED DEBT AND STOCKHOLDER'S EQUITY:		
Subordinated debt (Notes 4 and 5)	$8,500,000	
Stockholder's equity:		
Common stock, $.10 par value (authorized, 1,000,000 shares; outstanding, 125,000 shares)	12,500	
Paid-in capital	1,737,500	
Retained earnings (Notes 4 and 7)	5,803,269	
Stockholder's equity	7,553,269	
Subordinated debt and stockholder's equity		16,053,269
TOTAL		$34,648,073

cial statements.

TIFFANY TEXTILES, INC. AND SUBSIDIARY COMPANIES

STATEMENT OF CONSOLIDATED INCOME AND RETAINED EARNINGS
FOR THE FISCAL YEAR ENDED DECEMBER 29, 1973

NET SALES	$56,180,371
COST OF SALES (Note 6)	42,251,154
GROSS PROFIT	13,929,217
SELLING AND ADMINISTRATIVE EXPENSES	7,253,436
INTEREST, FACTORING CHARGES, ETC	3,700,201
Total	10,953,637
OPERATING INCOME	2,975,580
OTHER EXPENSES, NET	131,658
INCOME BEFORE FEDERAL INCOME TAXES	2,843,922
FEDERAL INCOME TAXES (Note 1):	
Current	868,961
Deferred	455,620
Total	1,324,581
NET INCOME	1,519,341
RETAINED EARNINGS, BEGINNING OF YEAR	4,283,928
RETAINED EARNINGS, END OF YEAR	$ 5,803,269

See notes to financial statements.

TIFFANY TEXTILES, INC. AND SUBSIDIARY COMPANIES

STATEMENT OF CHANGES IN CONSOLIDATED FINANCIAL POSITION
FOR THE FISCAL YEAR ENDED DECEMBER 29, 1973

WORKING CAPITAL PROVIDED:		
Operations:		
Net income		$1,519,341
Charges to income not currently requiring working capital:		
Depreciation and amortization of property	$1,229,236	
Amortization of display equipment	38,068	
Deferred federal income taxes (Note 1)	455,620	
Write off of investment in and advances to foreign subsidiary (Note 6)	546,246	2,269,170
Total from operations		3,788,511
Dispositions of property, net		226,923
Issuance of long-term senior debt		3,019,448
Issuance of subordinated debt		1,500,000
Total working capital provided		8,534,882
WORKING CAPITAL APPLIED:		
Additions to:		
Property		1,136,975
Deferred charges, net		91,220
Other assets		250,959
Reductions of long-term senior debt		1,147,708
Total working capital applied		2,626,862
INCREASE IN WORKING CAPITAL		$5,908,020
INCREASE (DECREASE) IN WORKING CAPITAL, BY COMPONENTS:		
Cash		$ 37,110
Accounts receivable, net		2,381,793
Inventories		2,008,389
Other current assets		139,718
Notes payable		1,355,000
Long-term debt due within one year		120,863
Other - Accounts payable, accrued expenses, etc		(134,853)
INCREASE IN WORKING CAPITAL		$5,908,020

See notes to financial statements.

TIFFANY TEXTILES, INC. AND SUBSIDIARY COMPANIES

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS
FOR THE YEAR ENDED DECEMBER 29, 1973

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES:

Consolidation

The accompanying financial statements include the accounts of all subsidiaries, each of which is wholly-owned. All significant intercompany transactions have been eliminated.

Inventories

Inventories are valued at the lower of cost, determined principally on the first-in, first-out basis, or market.

Property

Property is carried at cost and approximately $7,150,000 was pledged as collateral to long-term debt at December 29, 1973.

Depreciation and amortization were computed using principally the straight line method and the following estimated useful lives:

Buildings.....	45 years
Building improvements.....	20 years
Machinery, equipment and fixtures.	3-10 years
Automotive equipment.....	3-4 years
Leased office and showroom.....	Terms of lease, but not in excess of estimated useful life.

Maintenance and repairs are deducted from income when incurred. Major renewals and betterments are capitalized. When items of property are retired or otherwise disposed of, the related cost and accumulated depreciation are removed from the accounts. Gain or losses from sales of property items are added to or deducted from income.

(Continued)

Sample and Design Costs

Costs incurred in development of samples and designs are deferred (see Note 3) and deducted from income over the twenty-six weeks following the introduction of new lines.

Income Taxes

The Company and its subsidiaries will join with their parent company in filing a consolidated federal income tax return. Consolidated income taxes are allocated among the companies based on taxable income computed on a separate return basis. Estimated federal income tax investment credits are recorded as reductions of the provision for income taxes in the year that such credits are used to reduce the federal income tax liability. Such credits amounted to $41,000 for fiscal 1973. The portion of the consolidated federal income tax allocated to the Company and its subsidiaries will be paid to the parent company.

Deferred income taxes arise principally from deducting certain sample and design costs for income tax purposes in advance of the time of deducting such costs for accounting purposes and from using accelerated methods of depreciation for income tax purposes.

Provisions for state income taxes ($151,000) are included in selling and administrative expenses.

2. ACCOUNTS RECEIVABLE:

Substantially all trade receivables are sold to a factor without recourse as to credit losses. The $1,050,455 accounts receivable-factor represents amounts due to the Company on factored receivable balances.

3. DEFERRED CHARGES:

Deferred charges at December 29, 1973 include the following items to be deducted from income subsequent to that date:

Item	Amount	Period of Amortization
Interest on equipment obligations...	$ 301,923	Various to 1977
Mortgage costs.....	15,780	to 1982
Leasehold.....	17,251	to 1978
Sample and design costs.....	1,150,000	26 weeks
Other.....	54,770	Various
Total.....	$1,539,724	

(Continued)

4. LONG-TERM SENIOR DEBT:

Mortgages payable:	
6-1/2% (due $5,668 monthly, including interest, through October 1982)	$ 415,592
7-1/2% (due $4,640 monthly, including interest, through October 1982)	360,401
8-3/8% (due $3,423 monthly, including interest, through June 1987)	313,038
7-1/2% (due $185 monthly, including interest, through November 1996)	23,818
Notes payable - Bank, interest at 1% above prime rate payable quarterly	6,000,000
Equipment obligations (due generally in monthly instalments of varying amounts to December 1977)	1,435,283
Total	$8,548,132

The bank loan agreement includes provisions requiring the Company and its subsidiaries to (1) maintain a specified amount of net current assets and a specified current ratio and (2) limit consolidated current liabilities (as defined) and dividend payments and payments on subordinated notes to specified amounts.

5. SUBORDINATED DEBT:

Note payable - Parent company, 10%	$2,750,000
Other notes payable, 10%	5,750,000
Total	$8,500,000

6. COST OF SALES:

During 1973 the Company terminated the operating agreement for its foreign subsidiary and wrote off its investment in and advances to this subsidiary. The resulting loss ($580,000, including advances of $33,754 made in 1973) is included in cost of sales.

7. COMMITMENTS AND CONTINGENCIES:

Rental expense charged against operations for the fiscal year ended December 29, 1973 totaled $660,000.

(Continued) - 3.

At December 29, 1973, minimum annual rental commitments under noncancelable leases, none of which are financing leases, were as follows:

Fiscal Year	
1974	$ 555,000
1975	505,000
1976	450,000
1977	405,000
1978	350,000
1979 to 1983	1,160,000
1984 to 1988	100,000
1989 to 1993	-0-
After 1993	-0-
Total	$3,525,000

The Company had commitments at December 29, 1973 under yarn, supplies and findings purchase contracts amounting to approximately $1,400,000; and had placed orders for additions to property amounting to approximately $1,800,000.

TIFFANY TEXTILES, INC.
AND SUBSIDIARY COMPANIES

CONSOLIDATED FINANCIAL STATEMENTS
FOR THE
FISCAL YEAR ENDED DECEMBER 29, 1973
AND
AUDITORS' OPINION

****

HASKINS & SELLS

HASKINS & SELLS
CERTIFIED PUBLIC ACCOUNTANTS

2000 JEFFERSON FIRST UNION PLAZA
CHARLOTTE, NORTH CAROLINA 28282

AUDITORS' OPINION

Tiffany Textiles, Inc.:

We have examined the consolidated balance sheet of Tiffany Textiles, Inc. and subsidiary companies as of December 29, 1973 and the related statements of consolidated income and retained earnings and changes in consolidated financial position for the fiscal year then ended. Our examination was made in accordance with generally accepted auditing standards, and accordingly included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

In our opinion, the above-mentioned financial statements present fairly the financial position of the companies as of December 29, 1973 and the results of their operations and changes in their financial position for the fiscal year then ended, in conformity with generally accepted accounting principles applied on a basis consistent with that of the preceding year.

Haskins & Sells

March 7, 1974.

TIFFANY TEXTILES, INC. AND SUBSIDIARY COMPANIES

CONSOLIDATED BALANCE SHEET, DECEMBER 29, 1973

ASSETS

CURRENT ASSETS:		
Cash		$ 518,188
Accounts receivable:		
Trade, etc. (less $35,000 allowance for doubtful accounts) (Note 2)	$ 213,480	
Factor (Note 2)	1,050,455	1,263,935
Inventories (Note 2):		
Finished goods	7,763,489	
Work in process	4,040,015	
Fabric in process	4,847,896	
Yarn and other raw materials	1,181,611	
Supplies and findings	1,969,930	19,802,941
Other current assets		471,993
Total current assets		22,057,057
PROPERTY (Note 1):		
Land	118,348	
Building and building improvements	4,074,948	
Machinery and equipment	9,713,938	
Office, showroom and equipment	809,645	
Automotive equipment	216,618	
Machinery deposits	14,623	
Total	14,948,120	
Less accumulated depreciation	4,494,370	
Property, net		10,453,750
DEFERRED CHARGES (Notes 1 and 3)		1,539,724
OTHER ASSETS		597,542
TOTAL		$34,648,073

LIABILITIES AND STOCKHOLDER'S EQUITY

CURRENT LIABILITIES:		
Notes payable - Bank		$ 500,000
Accounts payable - Trade		4,298,888
Accrued wages and expenses		1,102,844
Long-term debt due within one year		1,115,684
Federal income and other taxes (Note 1)		1,172,665
Total current liabilities		8,190,081
DEFERRED FEDERAL INCOME TAXES (Note 1)		1,856,591
LONG-TERM SENIOR DEBT (Note 4)		8,548,132
SUBORDINATED DEBT AND STOCKHOLDER'S EQUITY:		
Subordinated debt (Notes 4 and 5)	$8,500,000	
Stockholder's equity:		
Common stock, $.10 par value (authorized, 1,000,000 shares; outstanding, 125,000 shares)	12,500	
Paid-in capital	1,737,500	
Retained earnings (Notes 4 and 7)	5,803,269	
Stockholder's equity	7,553,269	
Subordinated debt and stockholder's equity		16,053,269
TOTAL		$34,648,073

See notes to financial statements.

TIFFANY TEXTILES, INC. AND SUBSIDIARY COMPANIES

STATEMENT OF CONSOLIDATED INCOME AND RETAINED EARNINGS
FOR THE FISCAL YEAR ENDED DECEMBER 29, 1973

NET SALES	$56,180,371
COST OF SALES (Note 6)	42,251,154
GROSS PROFIT	13,929,217
SELLING AND ADMINISTRATIVE EXPENSES	7,253,436
INTEREST, FACTORING CHARGES, ETC	3,700,201
Total	10,953,637
OPERATING INCOME	2,975,580
OTHER EXPENSES, NET	131,658
INCOME BEFORE FEDERAL INCOME TAXES	2,843,922
FEDERAL INCOME TAXES (Note 1):	
Current	868,961
Deferred	455,620
Total	1,324,581
NET INCOME	1,519,341
RETAINED EARNINGS, BEGINNING OF YEAR	4,283,928
RETAINED EARNINGS, END OF YEAR	$ 5,803,269

See notes to financial statements.

TIFFANY TEXTILES, INC. AND SUBSIDIARY COMPANIES

STATEMENT OF CHANGES IN CONSOLIDATED FINANCIAL POSITION
FOR THE FISCAL YEAR ENDED DECEMBER 29, 1973

WORKING CAPITAL PROVIDED:		
Operations:		
Net income		$1,519,341
Charges to income not currently requiring working capital:		
Depreciation and amortization of property	$1,229,236	
Amortization of display equipment	38,068	
Deferred federal income taxes (Note 1)	455,620	
Write off of investment in and advances to foreign subsidiary (Note 6)	546,246	2,269,170
Total from operations		3,788,511
Dispositions of property, net		226,923
Issuance of long-term senior debt		3,019,448
Issuance of subordinated debt		1,500,000
Total working capital provided		8,534,882
WORKING CAPITAL APPLIED:		
Additions to:		
Property		1,136,975
Deferred charges, net		91,220
Other assets		250,959
Reductions of long-term senior debt		1,147,708
Total working capital applied		2,626,862
INCREASE IN WORKING CAPITAL		$5,908,020
INCREASE (DECREASE) IN WORKING CAPITAL, BY COMPONENTS:		
Cash		$ 37,110
Accounts receivable, net		2,381,793
Inventories		2,008,389
Other current assets		139,718
Notes payable		1,355,000
Long-term debt due within one year		120,863
Other - Accounts payable, accrued expenses, etc		(134,853)
INCREASE IN WORKING CAPITAL		$5,908,020

See notes to financial statements.

TIFFANY TEXTILES, INC. AND SUBSIDIARY COMPANIES

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS
FOR THE YEAR ENDED DECEMBER 29, 1973

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES:

Consolidation

The accompanying financial statements include the accounts of all subsidiaries, each of which is wholly-owned. All significant intercompany transactions have been eliminated.

Inventories

Inventories are valued at the lower of cost, determined principally on the first-in, first-out basis, or market.

Property

Property is carried at cost and approximately $7,150,000 was pledged as collateral to long-term debt at December 29, 1973.

Depreciation and amortization were computed using principally the straight line method and the following estimated useful lives:

Buildings.....	45 years
Building improvements.....	20 years
Machinery, equipment and fixtures.	3-10 years
Automotive equipment.....	3-4 years
Leased office and showroom.....	Terms of lease, but not in excess of estimated useful life.

Maintenance and repairs are deducted from income when incurred. Major renewals and betterments are capitalized. When items of property are retired or otherwise disposed of, the related cost and accumulated depreciation are removed from the accounts. Gain or losses from sales of property items are added to or deducted from income.

(Continued)

Sample and Design Costs

Costs incurred in development of samples and designs are deferred (see Note 3) and deducted from income over the twenty-six weeks following the introduction of new lines.

Income Taxes

The Company and its subsidiaries will join with their parent company in filing a consolidated federal income tax return. Consolidated income taxes are allocated among the companies based on taxable income computed on a separate return basis. Estimated federal income tax investment credits are recorded as reductions of the provision for income taxes in the year that such credits are used to reduce the federal income tax liability. Such credits amounted to $41,000 for fiscal 1973. The portion of the consolidated federal income tax allocated to the Company and its subsidiaries will be paid to the parent company.

Deferred income taxes arise principally from deducting certain sample and design costs for income tax purposes in advance of the time of deducting such costs for accounting purposes and from using accelerated methods of depreciation for income tax purposes.

Provisions for state income taxes ($151,000) are included in selling and administrative expenses.

2. ACCOUNTS RECEIVABLE:

Substantially all trade receivables are sold to a factor without recourse as to credit losses. The $1,050,455 accounts receivable-factor represents amounts due to the Company on factored receivable balances.

3. DEFERRED CHARGES:

Deferred charges at December 29, 1973 include the following items to be deducted from income subsequent to that date:

Item	Amount	Period of Amortization
Interest on equipment obligations...	$ 301,923	Various to 1977
Mortgage costs.....	15,780	to 1982
Leasehold.....	17,251	to 1978
Sample and design costs.....	1,150,000	26 weeks
Other.....	54,770	Various
Total.....	$1,539,724	

(Continued)

4. LONG-TERM SENIOR DEBT:

Mortgages payable:	
6-1/2% (due $5,668 monthly, including interest, through October 1982)	$ 415,592
7-1/2% (due $4,640 monthly, including interest, through October 1982)	360,401
8-3/8% (due $3,423 monthly, including interest, through June 1987)	313,038
7-1/2% (due $185 monthly, including interest, through November 1996)	23,818
Notes payable - Bank, interest at 1% above prime rate payable quarterly	6,000,000
Equipment obligations (due generally in monthly instalments of varying amounts to December 1977)	1,435,283
Total	$8,548,132

The bank loan agreement includes provisions requiring the Company and its subsidiaries to (1) maintain a specified amount of net current assets and a specified current ratio and (2) limit consolidated current liabilities (as defined) and dividend payments and payments on subordinated notes to specified amounts.

5. SUBORDINATED DEBT:

Note payable - Parent company, 10%	$2,750,000
Other notes payable, 10%	5,750,000
Total	$8,500,000

6. COST OF SALES:

During 1973 the Company terminated the operating agreement for its foreign subsidiary and wrote off its investment in and advances to this subsidiary. The resulting loss ($580,000, including advances of $33,754 made in 1973) is included in cost of sales.

7. COMMITMENTS AND CONTINGENCIES:

Rental expense charged against operations for the fiscal year ended December 29, 1973 totaled $660,000.

At December 29, 1973, minimum annual rental commitments under noncancelable leases, none of which are financing leases, were as follows:

Fiscal Year	
1974	$ 555,000
1975	505,000
1976	450,000
1977	405,000
1978	350,000
1979 to 1983	1,160,000
1984 to 1988	100,000
1989 to 1993	-0-
After 1993	-0-
Total	$3,525,000

The Company had commitments at December 29, 1973 under yarn, supplies and findings purchase contracts amounting to approximately $1,400,000; and had placed orders for additions to property amounting to approximately $1,800,000.

TIFFANY TEXTILES, INC. AND CONSOLIDATED
SUBSIDIARY COMPANIES

HISTORY AND SURVEY OF BUSINESS

TABLE OF CONTENTS

TIFFANY TEXTILES, INC. AND CONSOLIDATED SUBSIDIARY COMPANIES

FINANCIAL HIGHLIGHTS

(Expressed in Dollars - 000 Omitted)

	1973	1972	1971	1970	1969
Income for Year:					
Net Sales	56,180	53,963	43,647	33,889	24,143
Gross Profit	13,929	12,170	11,987	7,770	4,581
Income Before Federal Income Taxes	2,844	2,050	3,103	2,615	1,343
Net Income	1,519	1,216	1,349	1,116	560
Depreciation	1,229	1,110	848	574	404
Balance Sheet at End of Year:					
Working Capital	13,867	8,188	8,292	3,880	2,106
Investment in Property, Plant and Equipment (Net)	10,454	10,773	8,933	6,212	4,877
Total Assets	34,648	31,872	30,523	19,080	15,250
Long-term Debt	8,548	6,676	6,287	2,336	2,096
Subordinated Debt and Stockholder's Equity	16,053	13,034	11,818	8,469	5,353

TIFFANY TEXTILES, INC. AND CONSOLIDATED SUBSIDIARY COMPANIES

FINANCIAL HIGHLIGHTS

(Expressed in Significant Percentages and Ratios)

	1973	1972	1971	1970	1969
Expressed in Percentages:					
Gross Profits on Net Sales (a)	24.8	22.6	27.5	22.9	19.0
Net Profits on Net Sales (b)	2.7	2.3	3.1	3.3	2.3
Net Profits on Subordinated Debt and Stockholder's Equity (b)	9.5	9.3	11.4	13.2	10.5
Inventory to Net Working Capital	142.8	217.3	224.9	280.3	440.1
Fixed Assets to Subordinated Debt and Stockholder's Equity	65.1	82.7	75.6	73.3	91.1
Total Liabilities to Subordinated Debt and Stockholder's Equity	115.8	144.5	158.3	125.3	185.1
Current Liabilities to Inventory	41.4	60.5	61.4	71.2	83.3
Expressed in Ratios:					
Current Assets to Current Liabilities	2.7	1.8	1.7	1.5	1.3
Net Sales to Average Inventory	3.0	3.0	3.0	3.4	3.1
Net Sales to Net Working Capital	4.1	6.6	5.2	8.7	11.4

THE COMPANY

Tiffany Textiles, Inc. ("the Company"), a Delaware corporation, was organized in December, 1965. In 1968, Sears Industries, Inc. acquired 100% of the capital stock of the Company. The Company, through its subsidiaries and divisions, is an integrated manufacturing and selling organization. In its completely vertical plants, commencing with the purchase of raw yarn, it knits, dyes, finishes, cuts and sews women's and girls' knitted outerwear for sale to chain, discount, specialty and department stores. The garments produced are made in a variety of knitted and double knit fabrics, all of which are machine-washable, and include nylon, polyester and cotton. The styling of its product lines is designed to appeal to a wide range of consumers who are interested in good taste at a reasonable price. The Company has consistently emphasized quality as well as styling, and believes its reputation for both has been an important factor in the public's acceptance of its garments. The Com pany's executive offices are located at 45 West 36th Street, New York, New York.

CORPORATE STRUCTURE

Tiffany Textiles, Inc., a "holding" company, own 100% of the capital stock of Highlander, Ltd. (Highlander). Highlander owns 100% of the capital stock of the following companies, all of which were organized as subsidiaries:

Valdese Textiles, Inc.
Rutherfordton Textiles, Inc.
Town and Country Manufacturing, Inc.
Richlands Textiles, Inc.
Shallotte Textiles, Inc. (Inactive)
Gastonia Textiles, Inc.
Claremont Textiles, Inc.
Blackville Manufacturing Co. Inc.

In 1973, the Company terminated the operating agreement for its foreign subsidiary and wrote off its investment in that subsidiary.

CAPITALIZATION

The following table sets forth the capitalization of the Company at December 29, 1973:

Long-term debt (excluding Amount Due within One Year):	
Mortgages Payable:	
6½% Payable to October, 1982 (Due in Monthly Installments of $5,668)	$ 415,592
7½% Payable to October, 1982 (Due in Monthly Installments of $4,640	360,401
8 3/8% Payable to February, 1987 (Due in Monthly Installments of $2,445)	313,038
7½% Payable to October, 1996 (Due in Monthly Installments of $ 185	23,818
Notes Payable - Bank, Interest at 1% above Prime Rate Payable - March 1975 in Quarterly Installments	6,000,000
Equipment Obligations Due in Generally Monthly Installments to December 1977	1,435,283
	$8,548,132
Subordinated Debt and Stockholder's Equity:	
Note Payable - Parent Company 10% Due 1976	$2,750,000
Note Payable - Affiliated Company 10% Due 1976	5,750,000
	8,500,000
Common Stock $.10 Par Value (Authorized 1,000,000 Shares)	125,000 shares

TIFFANY TEXTILES, INC. AND SUBSIDIARY COMPANIES

CONSOLIDATED BALANCE SHEET

(000 Omitted)

	December 29, 1973	December 30, 1972	December 31, 1971	December 26, 1970	December 27, 1969
A S S E T S					
CURRENT ASSETS:					
Cash - Demand Deposits	518	481	413	213	149
Accounts Receivable	213	341	396	316	255
Inventories	19,803	17,795	18,646	10,874	9,268
Other Current Assets	472	332	287	216	155
Due From Factor	1,051				
Total Current Assets	22,057	18,949	19,742	11,619	9,827
PROPERTY, PLANT AND EQUIPMENT -					
At Cost	14,948	14,171	11,247	7,694	5,823
Less Accumulated Depreciation	4,494	3,398	2,314	1,482	946
Property, Plant and Equipment (Net)	10,454	10,773	8,933	6,212	4,877
DEFERRED CHARGES AND OTHER ASSETS	2,137	2,150	1,849	1,249	555
	34,648	31,872	30,524	19,080	15,259

860-A

TIFFANY TEXTILES, INC. AND SUBSIDIARY COMPANIES

CONSOLIDATED BALANCE SHEET

(000 Omitted)

	December 29, 1973	December 30, 1972	December 31, 1971	December 26, 1970	December 27, 1969
ASSETS					
CURRENT ASSETS:					
Cash - Demand Deposits	518	481	413	213	149
Accounts Receivable	213	341	396	316	255
Inventories	19,803	17,795	18,646	10,874	9,268
Other Current Assets	472	332	287	216	155
Due From Factor	1,051				
Total Current Assets	22,057	18,949	19,742	11,619	9,827
PROPERTY, PLANT AND EQUIPMENT -					
At Cost	14,948	14,171	11,247	7,694	5,823
Less Accumulated Depreciation	4,494	3,398	2,314	1,482	946
Property, Plant and Equipment (Net)	10,454	10,773	8,933	6,212	4,877
DEFERRED CHARGES AND OTHER ASSETS	2,137	2,150	1,849	1,249	555
	34,648	31,872	30,524	19,080	15,259

860-A

LIABILITIES AND SUBORDINATED DEBT AND STOCKHOLDER'S EQUITY	December 29, 1973	December 30, 1972	December 31, 1971	December 26, 1970	December 27, 1969
CURRENT LIABILITIES:					
Notes Payable - Bank	500	1,000	1,000	1,100	300
Accounts Payable - Trade	4,299	5,174	7,194	3,815	5,933
Accrued Expenses	1,103	719	515	522	375
Long-term Debt Due Within One Year	1,116	1,237	414	635	530
Federal Income and Other Taxes	1,172	318	941	548	482
Due To Factor	-0-	1,458	1,387	1,118	101
Notes Payable Affiliate	-0-	855			
Total Current Liabilities	8,190	10,761	11,451	7,738	7,721
DEFERRED FEDERAL INCOME TAX	1,857	1,401	968	537	87
LONG-TERM DEBT, Excluding Amount Due within One Year	8,548	6,676	6,287	2,336	2,098
Total Liabilities	18,595	18,838	18,706	10,611	9,906
SUBORDINATED DEBT AND STOCKHOLDER'S EQUITY:					
Subordinated Debt	8,500	7,000	7,000	5,000	3,000
Common Stock	13	13	13	13	13
Paid in Capital	1,737	1,737	1,737	1,737	1,737
Retained Earnings	5,803	4,284	3,068	1,719	603
	16,053	13,034	11,818	8,469	5,353
	34,648	31,872	30,524	19,080	15,259

TIFFANY TEXTILES, INC. AND SUBSIDIARY COMPANIES

CONSOLIDATED SUMMARY OF INCOME

(000 Omitted)

	1973	1972	1971	1970	1969
Net Sales	56,180	53,962	43,647	33,889	24,142
Cost of Sales	42,251	41,792	31,660	26,119	19,562
Gross Profit	13,929	12,170	11,987	7,770	4,580
Operating Expenses:					
Selling, General and Administrative	7,253	7,103	6,988	3,715	2,206
Interest and Factoring	3,700	3,057	2,462	1,839	1,230
Other (Income) Expenses	132	(40)	20	7	24
	11,085	10,120	9,470	5,561	3,460
Income Before Federal Income Tax	2,844	2,050	2,517	2,209	1,120
Federal Income Taxes:					
Current	869	401	737	616	460
Deferred	456	433	431	477	100
Total	1,325	834	1,168	1,093	560
Net Income	1,519	1,216	1,349	1,116	560

AS EXPRESSED AS PERCENTAGES

Net Sales	100.00	100.00	100.00	100.00	100.00
Cost of Sales	75.21	77.45	72.54	77.07	81.03
Gross Profit	24.79	22.55	27.46	22.93	18.97
Operating Expenses:					
Selling, General and Administrative	12.91	13.16	16.01	10.96	9.14
Interest and Factoring	6.59	5.66	5.64	5.43	5.09
Other (Income) Expenses Net	.23	(.07)	.04	.02	.10
	19.73	18.75	21.69	16.41	14.33
Income Before Federal Income Tax	5.06	3.80	5.77	6.52	4.64
Federal Income Tax	2.36	1.55	2.68	3.23	2.32
Net Income	2.70	2.25	3.09	3.29	2.32

NOTES TO SUMMARY OF INCOME (LOSS)

(ACTUAL)

(A) Interest paid to the Company's parent for the years 1973, 1972, 1971, 1970, and 1969 amount to $831,000, $788,000, $586,000, $405,000, and $254,000 respectively.

(B) Depreciation expense included in the cost of sales amounted to approximately:

1973	$1,229,000
1972	1,110,000
1971	848,000
1970	574,000
1969	404,000

TIFFANY TEXTILES, INC. AND SUBSIDIARY COMPANIES

STATEMENT OF CHANGE IN CONSOLIDATED FINANCIAL POSITION

(000 Omitted)

	YEAR ENDING				
	December 29, 1973	December 30, 1972	December 31, 1971	December 26, 1970	December 27, 1969
WORKING CAPITAL PROVIDED:					
Operations:					
Net Income	1,519	1,216	1,349	1,116	560
Charges to Income Not Currently Requiring Working Capital:					
Depreciation	1,229	1,111	848	574	404
Amortization	38	9	4	15	12
Deferred Federal Income Taxes	456	433	431	477	87
Write Off of Investment in and Advances To Foreign Subsidiary	546				
Total from Operations	3,788	2,769	2,632	2,182	1,063
Disposition of Property, Plant and Equipment, Net	227	9	20	154	17
Issuance Of:					
Long Term Senior Debt	3,020	2,376	5,068	952	808
Subordinated Debt	1,500	-	2,000	2,000	1,000
Additional Paid in Capital			-	-	-
Total Working Capital Provided	8,535	5,154	9,720	5,288	2,888
WORKING CAPITAL APPLIED:					
Additions to:					
Property, Plant and Equipment	1,137	2,960	3,588	2,064	676
Other Assets and Deferred Charges	342	310	604	736	237
Reductions of Long-Term Senior Debt	1,148	1,987	1,117	713	1,111
	2,627	5,257	5,309	3,513	2,024
Increase in Working Capital	5,908	(103)	4,411	1,775	864
Increase (Decrease) in Working Capital By Components:					
Cash	37	68	200	64	103
Accounts Receivable, Net	2,382	(55)	80	61	(78)
Inventories	2,008	(852)	7,772	1,606	3,126
Other Current Assets	140	46	71	61	51
Notes Payable - Bank	500	-	100	(800)	215
Long-term Debt Due within One Year	121	(295)	(306)	(105)	(170)
Other Accounts Payable, Accrued Expenses, Etc.	(135)	1,840	(3,506)	888	(2,383)
Notes Payable Affiliate	855	(855)	-	-	-
Increase in Working Capital (Decrease)	5,908	(103)	4,411	1,775	864

BUSINESS

SALES AND DISTRIBUTION:

Highlander:

Highlander sells popularly priced, co-ordinated separates retailing from $5.00 to $20.00. Approximately 60% of the division's sales is fine guage sweaters: the balance of 40% is double knit pants and jackets. All sales are made under the direction of a division manager, six salaried salesmen and one commission salesman. Sales are made principally to major syndicates and selected discount stores under private or unbranded labels. The division's major customers include Sears Roebuck, J. C. Penny, Woolworth's, Kresge, W. T. Grant, and Montgomery Ward. Sales to these customers account for approximately 80% of the division's sales.

Booth Bay:

Booth Bay sells moderately priced, related sportswear retailing from $8.00 to $30.00. Approximately 80% of the division's sales are in fine guage sweaters, and 20% in double knit sportswear. All sales are made nationwide under the direction of a division manager and approximately 50 commission salesmen. Sales are made to approximately 4,000 leading specialty and department stores under the "Booth Bay" label. Major customers of this division include Bloomingdale's, Bonwit Teller, Rich's, Burdines, Nieman Marcus, J. W. Robinson, and Broadway Department Stores. No single customer accounts for more than 10% of this division's sales.

Susan Scott:

Susan Scott sells better priced co-ordinated sportswear retailing

from $9.00 to $40.00. Approximately 75% of this division's sales are in double-knit sportswear. All sales are made nationwide under the direction of a division manager and approximately 25 commission salesmen. Sales are made to approximately 1,500 leading department stores and speciality shops and are sold to their better sportswear departments under the "Susan Scott" label. Major customers of this division include Macy's, Abraham and Strauss, Bon Marche, Famous Bar, and all Gimbels stores. No single customer accounts for more than 10% of this division's sales.

Retail Stores:

The Company has six retail outlets for its seconds and overruns. Four of these stores are adjacent to Company manufacturing operations in Morganton, Rutherfordton, Richlands, and Blackville.

Sales headquarters for all divisions are located in New York City. The Highlander Division showrooms are located at 45 West 36th Street; Booth Bay's Showroom is at 1411 Broadway; and Susan Scott Division's Showroom is at 1372 Broadway.

The Company ships substantially all of its garment on hangers from the following distribution centers:

Location	Product Shipped	Approx. Square Feet	Current Weekly Distribution
Rutherfordton, North Carolina	Full-fashioned tops and double knit pants	125,000	20,000 doz.
Richlands, North Carolina	Cut and sewn garments	38,000	10,000 doz.
Wilmington, North Carolina	Cut and sewn garments	40,000	13,000 doz.

The distribution center at Richlands is a segregated section of the manufacturing plant.

As indicated in the table below, the Company has experienced a most dynamic increase in sales volume:

	SALES (000's Omitted)				
	1969	1970	1971	1972	1973
Highlander	17,142	18,158	21,571	30,921	30,978
Booth Bay	3,000	6,427	7,918	10,268	13,219
Town & Country	3,000	6,344	6,480	6,322	3,744
Douglas Cay	1,000	2,111	3,868	2,737	3,456
Retail Stores	-	324	460	574	744
Booth Bay for Girls	-	-	1,378	412	-
He	-	-	491	1,760	596
Bandit (closed in 1971)	-	525	1,481	-	-
Cricket's Cove				969	402
Wholesale Division					3,041
Total	24,142	33,889	43,647	53,963	56,180

	EXPRESSED AS PERCENTAGES				
Highlander	72	54	49	57	55
Booth Bay	12	19	19	19	24
Town & Country	12	18	15	12	7
Douglas Cay	4	6	9	5	6
Retail Stores		1	1	1	1
Booth Bay for Girls			3	1	-
He			1	3	1
Bandit (closed in 1971)		2	3	-	-
Cricket's Cove				2	1
Wholesale Division				-	5
	100	100	100	100	100

MANUFACTURING PLANTS:

The Company's domestic manufacturing plants are set forth in the table below:

Corporate Name	Plant Location	Type of Operation	Area in Sq. Ft.
Highlander, Ltd.	Morganton, North Carolina	Full Fashion Knitting, Sewing, Dyeing and Finishing	120,000
Gastonia Textiles, Inc.	Morganton, Leland, North Carolina	Package Dyeing, Winding Circular Knitting, Dyeing & Finishing	130,000
Rutherfordton, Textiles, Inc.	Rutherfordton, North Carolina	Full Fashion Knitting, and Sewing	33,000
Valdese Textiles, Inc.	Valdese, North Carolina	Full Fashion Knitting and Sewing	9,000
Richlands Textiles, Inc.	Richlands, New Bern, Shallotte, North Carolina; Wampee, South Carolina	Cut and Sew	133,000
Town & Country Manufacturing, Inc.	Maiden, North Carolina	Sewing	41,000
			466,000

The Morganton plant and Wilmington Distribution Center are owned by the Company and are subject to existing first mortgages. All of the other plants are leased under leases expiring from 1 to 15 years. The plants are fully air conditioned and for the most part, are modern buildings of brick and steel construction.

The following schedule summarizes production data with respect to these plants:

	Full-Fashion Division	Circular Knit Division	Cut & Sew Division
CURRENT PRODUCTION CAPACITY-WEEKLY:			
Full Fashion Knitting-Dozens	20,000		13,000
Cutting - Dozens			
Sewing - Dozens	20,000		
Dyeing & Finishing	20,000		13,000
Knitted Cloth - Pounds		125,000	
Number of Employees	1,300	400	1,200
EQUIPMENT: (Number)			
Knitting:			
Full Fashion	124		
Flat	70		
Circular		85	
Winding and Twisting		23	
Sewing	725	5	995
Finishing and Dyeing			
Dye Vats	15	9	
Autoclave	4	1	
Steam Boxes	3		
Pressers	18		67
Tumblers and Dyers	18	12	
Washers	2	1	
Dry Cleaners	1	1	
Package Dye Machine		4	
Package Dye Dryer		1	
Extractors	2	2	
Heat Frames		3	
Inspection Machines		15	
Split and Opener		2	
Semi-Decater		1	
Printing	8	2	4
Mending Tables		4	
Continuous Scourer		1	
Continuous Dryer		1	
Calander		3	
Finishing Padder		1	
Automatic Batcher		1	
Pin-Tenner		1	
Pressure Dye Becks		6	
Jet Horizonal Machine		3	

EQUIPMENT: (Number) (con't.)	Full-Fashioned Division	Circular Knit Division	Cut & Sew Division
Finishing and Dyeing Spreading Machine			14
Employees			
Gastonia		541	
Highlander	1,205		
Valdese	128		
Rutherfordton	345		
Richlands			1,155
Town & Country			250
Total	1,678	541	1,405

The knitting operation generally operates on a six-day, three-shift basis; its dye and finishing operation on a three-shift, five-day basis; and its sewing operation on a five-day and a half, one-shift basis.

The Company's present average weekly production is:

Product	Number of Dozen
Full-fashioned tops	15,000
Cut and sewn sportswear, blouses and pants	11,000
Total Garments	26,000
Yards of cloth utilized in production (including approximately 50,000 yards pruchased from outside contractors	175,000

RAW MATERIALS:

The Company purchases raw yarn (including nylon, polyester and cotton) from major spinners, and piece goods, trim and findings from a variety of sources. The Company works closely with its suppliers in advance of its requirements so as to assure continuity of delivery. Although the Company has no long-term contracts with such suppliers, it has no difficulties in obtaining its necessary requirements because of numerous alternate sources of supply. The Company's suppliers of yarn are as follows:

Supplier	Percent of Total Purchases
Burlington Madison	24
National Spinning	31
Dow Badische (Universal Textured)	23
Roselon	10
Others	12
	100

EMPLOYEES:

The Company employs approximately 3,100 persons, of whom 2,900 are engaged in manufacturing operations in North Carolina and South Carolina, and approximately 200 persons are employed in sales and administrative capacities in New York and North Carolina. The Company has no unions. The Company believes its labor relations are most favorable and experiences little turnover. The Company has a bonus plan for certain divisional executives, under which these executives receive additional compensation based upon a percentage of profits earned by the divisions.

COMPETITION:

The women's-apparel industry is intensely competitive, and consists of a number of well-established firms which compete nationally with the Company's lines and also many smaller firms which sell only in certain geographic areas being supplied by the Company. Although the Company is not aware of any published statistics that would indicate its relative position in the industry, it believes that it is the industry leader with respect to the production capacity and sales of fine gauge, full-fashioned ladies' sweaters. The Company further believes that with respect to its other sportswear lines, it shares only a small portion of the total sales volume of the women's apparel industry, although it believes that being a vertical operation gives it a competitive edge in these markets.

DESIGN:

Each line of the Company's products is designed in New York City by its own staff of designers working with a director of design. The design complex includes pattern making, engineering and fabric selection. The design departments study fashion trends and keep abreast of consumer tastes in colors, fabrics and silhouettes in order to adapt the Company's products for a mass market.

The Company designs its products for each of the seasons prevalent in the industry. On planning each seasonal line, the design staff works closely with purchasing, production and sales forecasting personnel. Information on which to base future fashion trends is obtained from selected retail buyers, fashion publications and the garment industry. The design staff and the purchasing department consult with the leading producers of synthetic fabrics in the selection of yarn and colors for each season. The

engineering department analyzes the cost of each style, and seeks to eliminate technical production problems in advance.

DIRECTORS AND MANAGEMENT:

The directors and management of the Company are as follows:

Directors:

Name	Principal Occupation
Charles Clore	Chairman of the Board of Sears Holding, Ltd. (London, England) and Sears Industries, Inc.
Leonard Sainer	Senior partner of the law firm of Titmuss, Sainer & Webb (London, England), and Vice Chairman of the Board of Sears Holding, Ltd. and Sears Industries, Inc.
Louis Leeds	Vice-chairman of the Finance Board of Directors, Tiffany Textiles, Inc.
Herbert Rounick	President, Tiffany Textiles, Inc.
Alvin Friedman	Partner, Kuhn, Loeb & Company
Leonard Steibel	Senior partner in the New York law firm, Smith, Steibel & Alexander
Max Stetner	President, Sears Industries, Inc.
Ben Spindel	Vice President, Sears Industries, Inc.

Management:

Name	Title
Herbert Rounick	President
Albert Pera	Controller
Irwin Schwartz	Division Manager, Booth Bay
James Glazer	Division Manager - Highlander, Ltd.
Bernard Litten	Division Manager - Susan Scott
Maurice Kravitz	General Merchandise Manager

Herbert Rounick, 44 years old, is the founder and has been President and Chief Executive Officer of the Company since its iniation. Prior to organizing the Company, Mr. Rounick was President of the manufacturing division of Spartans Industries, Inc. and is also a former President of Maro Industries, Inc.

Albert Pera, a Certified Public Accountant, is 35 years old. Based in North Carolina, Mr. Pera is responsible for all financial and data processing departments. Prior to his association with the Company, he practiced public accounting with Ferro, Berdon & Company.

Bernard Litton, 49 years old, is a graduate of Philadelphia Textile College. He has had a 28 year experience in the textile and apparel industry. He was previously employed as Executive Vice President and merchandise director of Bodin Apparel Company. He also held a similar position with Jonathon Logan.

James A. Glazer, 33 years old, joined the Company in 1972 as Accounts Executive. He was prevously employed as a chain store accounts executive for Russ-Toggs, Inc.

Maurice Kravitz, 47 years old, joined the Company in 1971 as General Merchandise Manager. He is a graduate of the New York University School of Finance and was previously employed as Vice President and Merchandising Manager for S. Klein and General Merchandising Manager for Miller Wohl Corporation.

Irwin Schwartz, Booth Bay Division Manager, is 49 years old. He has had over 30 years experience in the apparel industry. He joined the Company inception as a commission salesman. He also was a regional sales manager before being promoted to division manager.

EXHIBIT III
DEC. 3, 1974

November 7, 1974

Mr. P. C. Smith, Secretary
State Budget and Control Board
P. O. Box 11333
Columbia, South Carolina 29211

Dear Mr. Smith:

After reviewing and evaluating the qualifications of all firms submitting resumes the Development Committee held conferences with 10 of these firms. The Development Committee and the State College Board of Trustees submit the following firm for the approval of the Budget and Control Board.

Phase I - Student Center-Administrative Complex
$2,600,000

Craig and Gaulden
Greenville, S. C.

Other projects approved for Lander College during the past two years are as follows:

Office/Classroom-Maintenance Building
Greenwood Associates
Project Cost $280,000

Library
Freeman, Wells and Major
Project Cost $2,652,000

Student Parking Facilities
Hearst Coleman and Associates, Inc.
Project Cost $120,000

I am attaching copies of the notice that was published in the Greenville News Piedmont and The State newspaper and a list of the other firms considered. Also, as per Part II, section 10, paragraph (6) of the 1974-75 Appropriations Act we are enclosing a tentative contract with Craig and Gaulden for this project.

We sincerely appreciate the excellent cooperation and help provided by you and your staff.

Sincerely,

Billy K. Dawson

Billy K. Dawson
Vice President for Financial Affairs

BKD/ec

Enc.

lander COLLEGE

GREENWOOD, SOUTH CAROLINA 29646

GREENVILLE NEWS PIEDMONT
August 21, 22, 23, 1974

LANDER COLLEGE will accept resumes of qualifications from interested architectural and/or engineering firms for the design of a Student Center/Administrative Complex on the Lander College Campus, Greenwood, South Carolina.
Total Cost of Project—$2,600,000
Correspondence should be addressed to:
Billy K. Dawson
Vice President
of Financial Affairs
Lander College
Greenwood, South Carolina 29646
Replies will be accepted through September, 4, 1974.

THE STATE
August 21, 22, 23, 1974

NOTICE

Lander College will accept resumes of qualifications from interested architectural and/or engineering firms for the design of a Student Center/Administrative Complex on the Lander College Campus, Greenwood, South Carolina

Total cost of project — $2,600,000.00
Correspondence should be addressed to:

Billy K. Dawson
Vice President for
Financial Affairs
Lander College
Greenwood, South Carolina 29646

Replies will be accepted through September 4, 1974

877

LANDER COLLEGE

PHASE I - STUDENT CENTER-ADMINISTRATIVE COMPLEX

OTHER FIRMS CONSIDERED

Freeman, Wells and Major
Greenville, South Carolina

Geiger, McElveen, Kennedy
Columbia, South Carolina

A. Dale Gilliland
Greenwood, South Carolina

J. Alison Lee
Greenwood, South Carolina

Lucas and Stubbs Associates
Charleston, South Carolina

Lyles, Bissett, Carlisle and Wolff
Columbia, South Carolina

Maynard Pearlstine/William Anderson & William O. Fulmer
Columbia, South Carolina

McMillan, Bunes, Townsend and Bowen
Greenville, South Carolina

The Tarleton-Tankersley Architectural Group
Greenville, South Carolina

SOUTH CAROLINA CHAPTER
THE AMERICAN INSTITUTE OF ARCHITECTS

THE STANDARD FORM OF AGREEMENT BETWEEN CLIENT AND ARCHITECT

THIS AGREEMENT

made this **7th** day of **November** in the year Nineteen Hundred and **Seventy-Four**

BY AND BETWEEN

Board of Trustees
Lander College
Greenwood, South Carolina hereinafter called the Client, and

Craig and Gaulden, Architects, Inc. hereinafter called the Architect

WITNESSETH,

that whereas the Client intends to **erect a College Center**

hereinafter called the Project,

NOW, THEREFORE,

the Client and the Architect, for the considerations hereinafter set forth agree as follows:

ARTICLE 1. The Client and the Architect agree to the general terms, conditions and principles regarding services, compensation, and architect – client relations as recommended by the South Carolina Chapter, The American Institute of Architects and embodied in its publication entitled "Standards of Architectural Service", dated January, 1970, a copy of which is attached hereto and made a part of this Agreement.

ARTICLE 2. The Architect agrees to provide applicable services as outlined in the above mentioned publication.

ARTICLE 3. The Client agrees to pay the Architect for his services in accordance with applicable conditions set forth in the above-mentioned publication as follows:

3.1 For his Basic Services **the Architect shall be paid compensation in accordance with the attached "Schedule of Compensation Based Upon Percentage of Construction Cost", dated November 7, 1974 at the rate of 1.038 times the rate for a normal project.**

1. 879

3.2 For his Supplementary Services as described in Section 3 and as amended herein, the Architect's compensation shall be computed as follows:

Principal's time at the fixed rate of Thirty Dollars ($30.00) per hour. For the purposes of this agreement, the Principals are:

Kirk R. Craig, A.I.A.
F. Earle Gaulden, A.I.A.
William T. Davis, A.I.A.

Employee's time computed as a multiple of two and one-half (2 1/2) times the employees Direct Personnel Expense as defined in Paragraph 4.3C.

Additional services of professional consultants engaged for the normal structural, mechanical and electrical engineering services at a multiple of one and one-quarter (1 1/4) times the amount billed to the Architect for such additional services.

Article 4 SEE ATTACHED PAGE 3.

IN WITNESS WHEREOF the parties hereto have executed this agreement the day and year first above written.

Client _____

By _____

Architect Craig and Gaulden, Architects, Inc.

By _____
F. Earle Gaulden, A.I.A.
President

880

Article 4 The following provisions supersede, change, and modify any contrary provisions contained in other articles of this agreement and in "The Standards of Architectural Service", South Carolina Chapter, A.I.A., January, 1970 Edition.

4.1 The Architect agrees:

A. To perform schematic design services for the future addition to the College Center and to defer billing for that portion of the work until funds are available for the future addition.

B. To furnish without extra charge twenty (20) sets of bid documents.

C. To furnish without extra charge one colored, artist's rendering of the project, approximately 30" x 40" and to provide a study model.

D. That a mutually agreed upon representative of the Architect's office shall make at least a weekly visit, during construction, to the jobsite, except when weather, job progress, or other reasons (with concurrence of the Owner) make such visits unnecessary.

E. To assist the Owner in completing the programming of the project.

F. To retain consultation services for acoustical design.

G. To provide landscape design services at the agreed rate of compensation.

H. To provide interior design services for furnishings and equipment at the agreed rate of compensation.

I. To provide a detailed estimate of construction costs.

J. To continue construction phase services after the date of substantial completion and through the "year end inspection".

K. To retain consultation services for the theatre design.

L. To retain consultation services for food processing.

M. To reimburse Lander College one-third (1/3) of the cost of the salary of a full-time resident inspector but in the case the resident inspector works on several projects concurrently for Lander College, the reimbursement shall not exceed one-third (1/3) of the pro rata share for the construction phase of the College Center project.

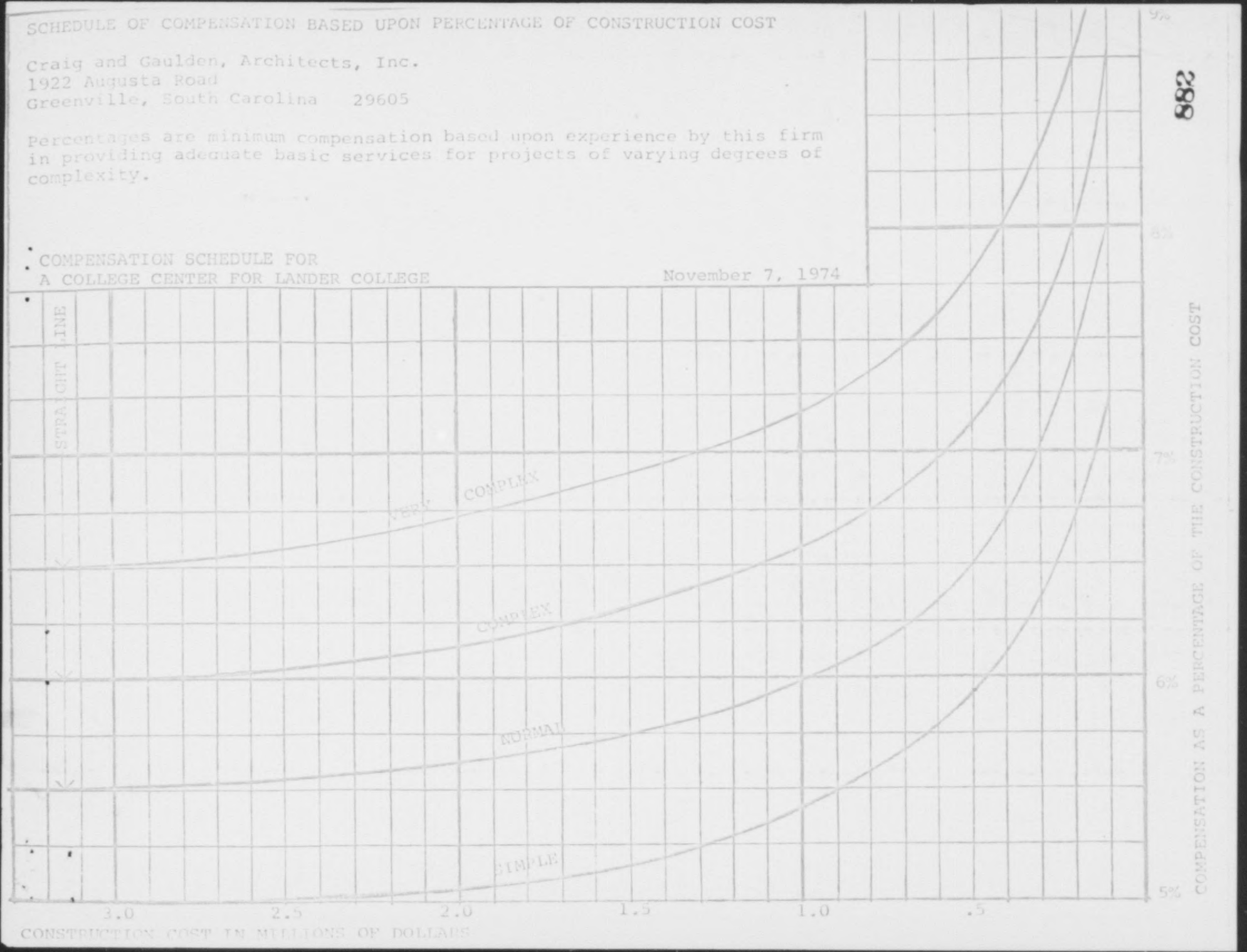
SCHEDULE OF COMPENSATION BASED UPON PERCENTAGE OF CONSTRUCTION COST

Craig and Gaulden, Architects, Inc.
1922 Augusta Road
Greenville, South Carolina 29605

Percentages are minimum compensation based upon experience by this firm in providing adequate basic services for projects of varying degrees of complexity.

COMPENSATION SCHEDULE FOR
A COLLEGE CENTER FOR LANDER COLLEGE

November 7, 1974



November 12, 1974

Mr. Billy K. Dawson
Vice President for Financial Affairs
Lander College
Greenwood, South Carolina 29646

Dear Mr. Dawson:

This will acknowledge your letter and attachments regarding the selection of architects for the Student Center-Administrative Complex.

Your selection will be submitted to the Budget and Control Board at the next meeting. At the moment, we see no reason for other than routine approval.

Very truly yours,

P. C. Smith
State Auditor

PCS:dr

EXHIBIT II
DEC 3, 1974

TO: BUDGET AND CONTROL BOARD

FROM: A. BARON HOLMES, DIRECTOR, WAYS AND MEANS COMMITTEE

MOTOR VEHICLE MANAGEMENT STUDY

At the request of Governor West and the Board during the September 24, 1974 meeting, I have arranged with the Council of State Governments for a study team to review our motor vehicle management procedures and practices. The team will be composed of:

Bob Cornet, Director of Special Projects, Council of State Governments
George Carlton, Director of the State Motor Pool, Department of Administration, Minnesota
Mike McGuinn, ~~Executive~~ ex- Supervisor of Motor Vehicle Services, Department of Administrative Services, Georgia

Bob Cornet and George Carlton served on a similar study group for the State of Kansas and Mike McGuinn has consulted with a special Motor Vehicle Management Study Committe established by the Management Review Implementation Office in 1973. Thus all three members are experienced in motor vehicle management. Two of these have been directors of their state motor vehicle management programs and are quite acquainted with the practical difficulties involved. Georgia, like South Carolina today, left all motor vehicle management policies up to agency discretion until 1972 when Governor Carter created a state motor pool. As the first director of the motor pool, Mike McGuinn should be able to inform us first hand of the start-up problems involved in establishing a motor vehicle management system.

As presently envisaged, the study team will visit South Carolina for two days on a tight agenda, meeting with the Special Motor Vehicle Management Committee, with the Director and Staff of General Services, and with other appropriate persons. I intend to provide them with all available written information two weeks before their visit, so that they may spend their time in Columbia as fruitfully as possible.

The end product of their visit will be a brief written report, summarizing their findings and enumerating any recommendations which they may wish to make. Although it will probably not be possible for the team to present a briefing in person to the Budget and Control Board, it should be possible for them to meet with the appropriate staff members to explain their findings and a subsequent report could be made to the Board.

The cost of the visit should be nominal. Bob Cornet's expenses are paid by the Council of State Governments. For McGuinn and Carlton, the expense will be for air fare from Atlanta and St. Paul, plus room and board in Columbia. The total cost should not exceed four to five hundred dollars.

Since the Civil Contingent Fund is nearly depleted, some source of funding must be found.

In conclusion, the Budget and Control Board is faced with two questions:

1. Is the design of the Study Team arranged by the Council of State Governments adequate to provide the desired review of our motor vehicle management needs?

2. If the study team is to visit South Carolina, where will the funds be found to pay for their travel and subsistence?

EXHIBIT VI
DEC. 3, 1974

Adoption of Regulation Relating to the Establishment of Additional Service Credit Subsequent to Retirement and the payment therefor.

WHEREAS, by Administrative policy, the South Carolina Retirement System has permitted retired members to establish additional service credit upon proper documentation, and

WHEREAS, the increase in the monthly allowance resulting from the additional service credit, through long standing administrative policy, has been applied with an effective date coincident with the date of proper documentation and payment where necessary, and

WHEREAS, the above policy is sound and has been consistently adhered to in past years, therefore be it

RESOLVED, that in accordance with Section 61-19 of the Retirement Law the Budget and Control Board hereby adopts the procedure and policy as a regulation of the South Carolina Retirement System.

The State Budget and Control Board of the South Carolina Retirement System at a meeting held on _____, 1974 passed the preceding resolution.

THE STATE BUDGET AND CONTROL BOARD FOR THE SOUTH CAROLINA RETIREMENT SYSTEM

By_____
Chairman

ATTEST:

_____
Secretary

Adoption of Regulation Relating to the Establishment of Additional Service Credit Subsequent to Retirement and the payment therefor.

WHEREAS, by Administrative policy, the South Carolina Retirement System has permitted retired members to establish additional service credit upon proper documentation, and

WHEREAS, the increase in the monthly allowance resulting from the additional service credit, through long standing administrative policy, has been applied with an effective date coincident with the date of proper documentation and payment where necessary, and

WHEREAS, the above policy is sound and has been consistently adhered to in past years, therefore be it

RESOLVED, that in accordance with Section 61-19 of the Retirement Law the Budget and Control Board hereby adopts the procedure and policy as a regulation of the South Carolina Retirement System.

The State Budget and Control Board of the South Carolina Retirement System at a meeting held on _____, 1974 passed the preceding resolution.

O. Frank Thornton
SECRETARY OF STATE
FILED
DEC 20 1974
A.M. 7 8 9 10 11 12 1 2 3 4 5 6 P.M.

THE STATE BUDGET AND CONTROL BOARD FOR THE SOUTH CAROLINA RETIREMENT SYSTEM

By _____
Chairman

ATTEST:

_____
Secretary

CERTIFIED IN ACCORDANCE WITH ACT NO. 716 OF 1

Henry S. Lake
CODE COMMISSIONER
12-18-74

887

EXHIBIT V
DEC. 3, 1974

November 14, 1974

Dr. William H. Patterson, President
University of South Carolina
Columbia, South Carolina 29208

Dear Dr. Patterson:

This is in response to your letter of November 11 regarding proposed salaries of faculty and academic administrative personnel of the new Medical School at the University.

In view of the nature of this subject, I am sure it would be to the benefit of the Budget and Control Board if you and/or others from the University could attend a meeting of the Board at which your proposals might be directly presented, and time provided for appropriate discussion. As you are undoubtedly aware, the Board has for sometime been concerned with the method of compensating academic personnel at the Medical University in Charleston, being particularly interested in developing some system that would eliminate the factor of income from private practice directly associated with the institution. Apparently you are interested in avoiding this situation at the University, and I am sure the Board would support any proposals in that direction.

The next meeting has not at the moment been set. I will get in touch with you just as soon as a meeting is scheduled and arrange for your appearance.

Very truly yours,

P. C. Smith
State Auditor

PCS:dr

UNIVERSITY OF SOUTH CAROLINA
COLUMBIA, S. C. 29208

OFFICE OF THE PRESIDENT

November 11, 1974

The Honorable P. C. Smith
State Auditor
P. O. Box 11333
Columbia, South Carolina 29211

Dear Mr. Smith:

The Dean of the Medical School is aware that the salary scale for faculty is to be the same as the scale used by the College of Medicine of the Medical University of South Carolina. In the case of clinical faculty this is often the "geographical full-time" scale, a copy of which is enclosed.

The Dean feels that it is undesirable to encourage faculty of clinical departments to see private patients during the first two years of the development of these departments, but is acutely aware that the strict full-time scale will not attract the calibre of faculty that he is seeking although the geographic full-time scale would be attractive. Unfortunately, from the point of view of a new department starting up, the geographic scale does oblige the faculty member to see private patients.

As a solution to this problem he has outlined a proposal in the enclosed letter which requests permission to augment the strict full-time salaries for a temporary period of two years. At the end of this period clinical faculty members would have the option of moving to geographic full-time or reverting to the normal scale for strict full-time.

Since ninety percent of faculty salaries will be met from federal funds during the first three years of the medical school's operation, the University does not intend to seek

additional state funds if permission is given to provide the requested temporary augmentation of clinical strict full-time salaries. We are also enclosing a letter from the Veterans Administration indicating their assignment of funds for this purpose.

I know that Dr. Adams Smith would be pleased to provide further information for you if you so desire.

Sincerely,

William H. Patterson

WHP/hmm

cc: Dr. W. N. Adams Smith

Enclosures

COLLEGE OF MEDICINE

MEDICAL UNIVERSITY OF SOUTH CAROLINA

FACULTY SALARY RANGES
1974 - 1975 Academic Year

	BASIC SCIENCE FULL - TIME	CLINICAL STRICT FULL-TIME	CLINICAL GEOGRAPHIC FULL-TIME	
			Base Salary	Ceiling*
PROFESSOR AND DEPARTMENT CHAIRMAN	$30,000-$39,600	$37,200-$48,730	$27,000-$35,200	$27,001-$56,456
PROFESSOR	$24,500-$33,000	$34,400-$44,200	$21,600-$30,500	$21,601-$55,328
ASSOCIATE PROFESSOR	$20,900-$28,100	$28,300-$39,300	$18,300-$24,600	$18,301-$48,552
ASSISTANT PROFESSOR	$17,300-$25,400	$23,300-$33,000	$15,100-$22,300	$15,101-$41,777
ASSOCIATE	$14,800-$21,500	$19,700-$28,100	$13,000-$18,800	$13,001-$35,003
INSTRUCTOR	$12,300-$19,000	$16,000-$24,200	$10,800-$16,400	$10,801-$30,487

* Ceilings furnished by Dean's Office

UNIVERSITY OF SOUTH CAROLINA

COLUMBIA, S.C. 29208

SCHOOL OF MEDICINE

Office of the Dean

November 7, 1974

Dr. W. N. Adams-Smith
Vice President for Health Affairs
Campus

Dear Dr. Adams-Smith:

As we enter the phase of development of the School of Medicine when we are beginning to recruit our faculty I am faced with a rather meaningless classification of geographic full-time. During the start-up period for our school there will be very little time to pursue a clinical practice. The faculty for the first two years will be involved in developing curriculum, organizing specific teaching plans and establishing bases for clinical teaching opportunities. It would be to our disadvantage to encourage our staff to seek ways to augment their income during the first two years.

I would like to propose that I be allowed to augment the salary scale for full-time clinical faculty for the first two years as follows:

	Clinical Strict Full-time	Two-year Augmentation
Professor and Department Chairman	$44,000	$12,000
Professor	40,000	10,000
Associate Professor	36,000	8,000
Assistant Professor	32,000	6,000
Associate	28,000	4,000
Instructor	26,000	4,000

This salary scale is at least $12,500 less than that authorized at the Medical University of South Carolina for each rank. None of these proposed augmentations exceed the "ceiling." The additional monies that may be earned under the "Incentive Plan" are not included.

I feel that the salary scale for basic science full-time faculty will allow the school to be competitive with few exceptions. The salary scale that I would like to use is based on the one used by the Medical University of South Carolina and is as follows:

Professor and Department Chairman	$39,000
Professor	35,000
Associate Professor	31,000
Assistant Professor	27,000
Associate	24,000
Instructor	19,000

The salary scale for the positions as associate and assistant deans that would allow us to be competitive I believe would be as follows:

Associate Dean for Basic Sciences and Graduate Studies	Base, full-time salary + $4,000
Associate Dean for Richland Memorial Hospital	Base, full-time salary + $6,000
Associate Dean for Student Affairs (Clinical person)	Base, full-time salary + $6,000

This would make the associate dean positions comparable to department chairmen. This is somewhat less than the salary scale for the Medical University of South Carolina, as determined by the total salary received by the Associate Dean at Richland Memorial Hospital.

There will be some faculty appointments to major positions that will be made involving local men who presently have practice responsibilities. These will be employed as geographic full-time using the guidelines as have been developed by the Medical University of South Carolina.

Lesser but important posts will be those designated as directors. These Posts will entail a considerable amount of administrative time and effort. I would propose that these appointees be compensated at approximately 50 percent of that suggested for associate deans.

Sincerely yours,

John B. Harley

John B. Harley, M.D.
Dean, School of Medicine

JBH:ec

VETERANS ADMINISTRATION
DEPARTMENT OF MEDICINE AND SURGERY
WASHINGTON, D.C. 20420

NOV - 0 1974

IN REPLY REFER TO: 143

RE: 1 A (74) III-41 0001

William H. Patterson, Ph.D.
President
University of South Carolina
Columbia, South Carolina 29208

Dear President Patterson:

Reference is made to a letter of June 11, 1974 from the Administrator of Veterans Affairs to President Jones, advising him of the approval of the application from the University of South Carolina for VA assistance in the establishment of a new medical school in affiliation with the Columbia Veterans Administration Hospital.

The enclosed Notice of Grant Award in the amount of $566,900 provides support for faculty salaries for the award period November 1, 1974 through October 31, 1975. It is anticipated that an additional $9,845,312 will be available for the remaining six years of the approved program period. Funds granted are solely for the payment of faculty salaries, and Veterans Administration participation cannot exceed 90% of salaries paid for this purpose.

In connection with this award period, $5,294,301 has been reserved for proposed space modification and equipping of Veterans Administration facilities. This portion of the approved application will be undertaken by the Veterans Administration and completed according to specifications determined during future negotiations. Specific terms of the lease of buildings and structures, and subsequent amounts for equipment and supplies will be negotiated also.

May I remind you that all expenditures must be in agreement with the approved program, Public Law 92-541, published Veterans Administration Rules and Regulations and Program Guidelines.

A complete package of Standard Award Conditions and Procedures is provided for your information and guidance although all the attachments are not applicable to this award. Your attention is specifically directed to pertinent portions of the Introduction (Attachment A), Reporting Requirements (Attachment B), and the Grant Payment System (Attachment H).

Show veteran's full name, VA file number, and social security number on all correspondence.

Any questions you may have about this award of funds may be directed to the Veterans Administration, Manpower Grants Service (143), 810 Vermont Avenue, N.W., Washington, DC 20420 (202/389-3072).

Sincerely yours,

JOHN D. CHASE, M.D.
Chief Medical Director

Enclosures

Exhibit VII
Dec. 3, 1974

CHARLES D. BARNETT, Ph.D.
Commissioner

WALTER G. FRIES, Ed.D.
Deputy Commissioner,
Professional Services

WALTER B. TODD
Deputy Commissioner,
Administration

STATE OF SOUTH CAROLINA
DEPARTMENT OF MENTAL RETARDATION
2712 MIDDLEBURG DRIVE
P. O. BOX 4706
COLUMBIA, SOUTH CAROLINA 29240

Eng. - rule

11/1/74 - Called Barnett - asked if he wanted to appear at Bd. Meeting 11/7. Said he would call back 11/8
11/4 - No reply.
11/6 - Called Barnett again. Said he would call back this P.M. if appearance wanted. No call.
RCB

October 29, 1974

37-45

The Honorable P. C. Smith
State Auditor
P. O. Box 11333
Columbia, South Carolina 29211

Dear Pat:

I had occasion to speak today by telephone with Mr. Charles Carson of our Midlands Center architectural firm of Carson and Williams. He was able to clarify for me the nature of Mr. Bright's contact with his office relative to projected costs on the residences at Midlands Center. According to Mr. Carson, Mr. Bright simply asked him, "Do you think $25 a square foot will cover these houses?" Mr. Carson's answer was in the affirmative but he related to me that he intended this to mean that the cost did not exceed $25 per square foot and not that the cost would necessarily run that high.

Based on this conversation I asked Mr. Carson to provide me with a cost take-off and in providing the attached information, he indicated that he used a professional estimator and contacted two reputable house builders in the Columbia area. Mr. Carson indicated that both builders estimated that we are in a favorable bid period due to material costs being down as well as a slack period among building contractors. One builder estimated that we would save as much as twenty-five percent through bidding the four housing units together while the other estimated that we could save ten percent through this procedure.

The attached estimate conforms very closely to our initial projections and again I see no way in which to determine the actual construction costs without bidding these projects. Certainly if we plan to build houses at

all we will probably never find a time during which we can obtain them more cheaply than now unless some major unforeseen developments occur in the housing construction market.

At an early future date we will be preparing to speak to the Board about these units. In the meantime, please accept the attached as informational material.

Best wishes,

Cordially,

Chuck

Charles D. Barnett, Ph.D.
Commissioner

CDB/rc

cc: Dr. James B. Berry, Jr.

all we will probably never find a time during which we can obtain them more cheaply than now unless some major unforeseen developments occur in the housing construction market.

At an early future date we will be preparing to speak to the Board about these units. In the meantime, please accept the attached as informational material.

Best wishes,

Cordially,

Charles D. Barnett, Ph.D.
Commissioner

CDB/rc

cc: Dr. James B. Berry, Jr.

ESTIMATE OF FOUR RESIDENCES

Residence #1

Total adjusted square footage 1,957.6

@ $20 per square foot $39,152*

Residence #2

Total adjusted square footage 2,791.9

@ $20 per square foot $55,838*

Residence #3

Total adjusted square footage 2,918.5

@ $20 per square foot $58,372*

Residence #4

Total adjusted square footage 3,372.5

@ $20 per square foot $67,453*

TOTAL COST OF ALL 4 RESIDENCES $220,815.00

If all 4 residences are bid at the same time under one contract, there will be a savings of approximately 10% or $22,081.50

TOTAL COST OF ALL 4 RESIDENCES BID AT SAME TIME $198,733.50

Total square footage for all 4 residence 11,040

Cost per square foot is $18 if all bid at same time

---

*Cost of each residence standing on its own bottom

CHARLES D. BARNETT, Ph.D.
Commissioner

WALTER G. FRIES, Ed.D.
Deputy Commissioner,
Professional Services

WALTER B. TODD
Deputy Commissioner,
Administration

STATE OF SOUTH CAROLINA
DEPARTMENT OF MENTAL RETARDATION
2712 MIDDLEBURG DRIVE
P. O. BOX 4706
COLUMBIA, SOUTH CAROLINA 29240

Call Rec. 10/21

37-45 - PHASE II

October 16, 1974

Re: Residence

HOLD

10/21/74 PD

Barnett asked about matter of getting bids, he proceeding further, he disagreed. PD

Personal

The Honorable Pat C. Smith
State Auditor
P. O. Box 11333
Columbia, South Carolina 29211

Dear Pat:

We appreciated the opportunity to appear before the combined budget groups yesterday and I sincerely hope you found our presentation informative and useful.

As indicated previously, we are eager to place the Hartsville Nursing Home purchase before the State Budget and Control Board at the earliest possible time. Your indication of when this will be possible will be appreciated.

The Commission gave informal discussion to the matter of staff residences at Midlands Center yesterday and recommended that I again mention our recommendation that bids be taken on these four units. Cost take-offs done here are at a significant variance from those done by your staff and the only way we can see to find out actual costs is to bid the units. Materials costs have fallen dramatically in the past few weeks and all of our contacts suggest that we are in a period wherein favorable bids should be possible. The Commission would like the opportunity to study the bids and then recommend acceptance or rejection to the Board. At that time the matter of occupancy could also be raised for the Board's consideration.

(over)

At the moment we have placed any further action on the residences in a "hold" position. We have a cleared site with roads in, this contract being let on a bid basis after word

was received of the State Engineer's approval of the residences' plans and specifications. I believe the Board will need to advise as to what the next step should be. We will certainly work with you any way possible to clarify this overall matter.

Best regards,

Cordially,

Charles D. Barnett, Ph.D.
Commissioner

CDB/atw

Re: Residences

RJ.

10/18

John Brish requested to contact architects re residences, and come to agreement re cost estimates.

Called Barnett - out. No Mon.

10/21

Brish's name attached.

Called Barnett - 1) advised him of content of meeting.
- 2) recommended against getting bids just to establish cost — not fair to bidders.

Barnett advised that further action be deferred at this time. (Do not present to B of C Bd.)

901-A

10-4-74

Mr. Smith - We have been reviewing plans for 4 staff residences proposed to be constructed under Project No. 37-45, Midlands Center Phase II. I believe there has been some concern with the Budget and Control Board relative to construction of residences for State employees. For this reason, I am attaching a brief description, and our estimates of construction costs for the above mentioned 4 residences.

L. P. Hamilton

901-B

FOUR STAFF RESIDENCES - MIDLANDS CENTER

HOUSE #1 - ONE STORY

BRICK VENEER - WOOD STRUCTURAL FRAMING ON MASONRY PIERS. CONCRETE FOUNDATIONS.

THREE BEDROOMS, TWO FULL BATHROOMS, LIVING ROOM, DINING ROOM, FAMILY ROOM WITH FIREPLACE, KITCHEN WITH STAINLESS STEEL DOUBLE SINKS, GARBAGE DISPOSAL IN SINK, UTILITY ROOM, SEPERATE BROOM CLOSET, STORAGE ROOM.

20' x 21' CARPORT, 12' x 16' RAISED PATIO

LIVING ROOM, DINING ROOM, BED ROOMS, HALL, AND ALL CLOSETS FULLY CARPETED.

Estimate

Heated areas - 1520 sq. ft. estimated @ 25¢ □' = 38000
other areas - 600 " " " " 15¢ □' = 6000
44,000

Estimate

Heated areas - 2240 sq. ft. estimated @ 25¢ □' = 56000
other areas - 740 sq. ft. " " 15¢ □' = 11,100
67,100

HOUSE #2 - TWO STORIES

BRICK VENEER - WOOD STRUCTURAL FRAMING ON MASONRY PIERS, CONCRETE FOUNDATIONS.

FIRST FLOOR HAS - FOYER, CENTER HALL, LIVING ROOM, DINING ROOM, FAMILY ROOM WITH FIREPLACE, POWDER ROOM (½ BATH), KITCHEN, DINETTE WITH BOW WINDOW, UTILITY ROOM, STORAGE ROOM, 2 CAR GARAGE, 12' x 18' RAISED PATIO.

9 Rooms +

2ND FLOOR HAS: FOUR BEDROOMS, TWO FULL BATH ROOMS, (MASTER BED ROOM HAS DRESSING ROOM WITH WALK-IN CLOSET & LAVATORY VANITY)

2ND FLOOR IS CARPETED THROUGHOUT,
FIRST FLOOR IS CARPETED IN FOYER, LIVING,
DINING, FAMILY ROOMS. FAMILY ROOM IS
PANELLED.

HOUSE #3 IS IDENTICAL WITH HOUSE #2 WITH
EXCEPTION OF FRONT PORCH WHICH IS
LARGER AND HAS DIFFERENT ENTRY
TREATMENT.

Estimate - 2240 □' heated areas @ 25¢ = 56,000
1000 □' other " @ 14¢ = 14,000
71,000

HOUSE NO. 4 - TWO STORIES
BRICK VENEER - WOOD STRUCTURAL FRAMING ON
PIERS, CONCRETE FOUNDATIONS.
FIRST FLOOR HAS:- FOYER, LIVING ROOM, DINING ROOM,
FAMILY ROOM WITH FIREPLACE, DINETTE,
KITCHEN, BED ROOM WITH FULL BATH AND
WALK-IN DRESSING ROOM, UTILITY ROOM,
STORAGE ROOM AND TWO CAR GARAGE AND
LARGE RAISED PATIO, LARGE FRONT PORCH WITH COLS.
2ND FLOOR HAS 3 BEDROOMS AND 2 BATHS,
(MASTER BEDROOM HAS 2 WALK-IN CLOSETS
WITH SEPARATE DRESSING ROOM)
9 ROOMS + ?
HOUSE IS CARPETED
DRESSING ROOMS HAVE BUILT-IN VANITIES
WITH SINKS.

Estimate
Heated areas 2650 □' @ 25¢ = 66,250
other " 1100 □' @ 15¢ = 16,500
82,750

10/21/02

MR. SMITH

REF - 4 RESIDENCES
MIDLANDS CENTER

IN ACCORDANCE WITH YOUR REQUEST I SPOKE WITH CHARLES CARSON - (ARCHITECT ON THE ABOVE REF. PROJECT)

CARSON DID NOT PREPARE A COST ESTIMATE, HOWEVER, WHEN I GAVE HIM MY BASE ESTIMATING FIGURES ($25.00/SQ.FT. HEATED AREAS & $15.00/SQ.FT UNHEATED AREAS) HE FELT THEY WERE RESONABLE.

AS A RESULT, I FEEL IT IS POSSIBLE FOR MY ESTIMATES TO BE OFF A FEW THOUSAND DOLLARS, BUT LEGITIMATE APPRAISALS

John M. Breit

EXHIBIT VIII
DEC. 3, 1974

south carolina
department of corrections

P.O. BOX 766/4444 BROAD RIVER ROAD/COLUMBIA, SOUTH CAROLINA 29202
TELEPHONE 772-5520
WILLIAM D. LEEKE, Director

December 2, 1974

Mr. P. C. Smith
Secretary, State Budget and Control Board
Post Office Box 11333
Columbia, South Carolina 29211

Dear Mr. Smith:

After a careful review of the qualifications of the architectural and engineering firms expressing an interest in the design of three Regional Correctional Centers in the Upper Savannah (Greenwood) and Appalachian Regions (Greenville and Spartanburg), the Medical Complex (Columbia), a Central Supply Warehouse (Columbia) and two dormitories at the Goodman Correctional Center, I am listing below those firms we have selected for each project to accomplish the necessary design work.

A. Regional Correctional Center (Greenwood)

Lucas, Stubbs & Hemphill

B. Regional Correctional Center (Spartanburg)

Lockwood - Greene

C. Regional Correctional Center (Greenville)

Freeman, Wells & Major

D. Medical Complex (Columbia)

Geiger, McElveen, Kennedy, Pearlstine & Anderson

E. Central Supply Warehouse (Columbia)

Triad Architectural Association

F. Two Dormitories - Goodman Correctional Institution (Columbia)

Bruce Flemming

Enclosed is a draft of the proposed contract submitted by the firm selected for each of the six projects. The Board of Corrections has reviewed and approved each selection. Attachment #1 is included to provide you with a list of every firm which expressed interest in each of the above listed projects.

Announcements advertising these projects appeared simultaneously on October 2, October 6 and October 20 in the following newspapers:

Charleston News and Courier
Columbia Newspapers (The State)
Florence News
Greenville News
Index Journal (Greenwood)
Spartanburg Herald

I am enclosing as attachment #2 documents to this effect. A listing of construction projects undertaken and architectural and engineering firms involved during the past two years is included as attachment #3.

Upon receipt of your approval of the above listed architectural and engineering firms selected for each project, we shall proceed to enter into a contractual agreement for the architectural and engineering services for each of the projects.

Sincerely,

William D. Leeke

WDL/cm

Attachments

cc: Mr. Charles A. Leath
Mr. John Potts

South Carolina Department of Corrections
Engineering Office
4322 Broad River Road
Columbia, South Carolina 29210

Architectural/Engineering Firms - 1972-1974

Project	Constr. Cost	Architectural/ Engineering Firm
Women's Correctional Center - Phase I (Administration Bldg., Kitchen/Dining Facility, Dormitories, & Industries Bldg.)	$ 1,733,803	Geiger/McElveen/Kennedy
Women's Correctional Center - Phase II	$ 1,345,000	Geiger/McElveen/Kennedy
Addition to Administration Building	$ 1,649,500	Geiger/McElveen/Kennedy
Men's Maximum Security Complex - Phase I (Administration Bldg., Dormitories, Kitchen/Dining Facility, & Central Energy Plant)	$ 6,693,000	Geiger/McElveen/Kennedy
Men's Maximum Security Complex - Phase II (Infirmary, Dormitories, Education Bldg., & Industries Bldg.)	$ 2,498,500	Geiger/McElveen/Kennedy
Multipurpose Building for MacDougall Youth Center (Did NOT Construct - Lack of Funds)	$ 400,000 (est.)	Gill, Wilkins, & Wood
Chapel for MacDougall Youth Correctional Center	$ 195,000	Gill, Wilkins, & Wood
Renovations to Cannery Building - MYCC	$ 75,000 (est.)	Gill, Wilkins & Wood
Mid-State Community Pre-Release Center (Administration Area, Dormitories, & Kitchen/Dining Facility)	$ 528,277	Carson & Williams
Pee Dee Community Pre-Release Center (Administration Area, Dormitories, & Kitchen/Dining Area)	$ 424,782	Eric McClanahan and Samuel D. Harper
Supply Complex	$ 180,000	Player & Associates
Sewage Treatment Facility - Wateree	$ 60,000	Leon Campbell & Associates
Road System (Broad River Complex)	$ 550,000 (est.)	Leon Campbell & Associates
Hampton Street Extension	$ 150,000 (est.)	McMillan, Bunes, Townsend & Bowen
Rehab Two County Prison Facilities (Greenwood & Laurens)	$ 285,000 (est.)	Greenwood Associates

November 19, 1974 / fes

Recommended Architect	Project	Estimated Cost
Lucas, Stubbs & Hemphill	Regional Correction Center (Greenwood)	$ 2 185 512
Lockwood - Greene	Regional Correction Center (Spartanburg)	2 492 362
Freeman, Wells & Major	Regional Correction Center (Greenville)	1 664 970
Geiger, McElveen, Kennedy) Pearlstine & Anderson)	Medical Complex (Columbia)	7 626 728
Triad Architectural Assn.	Central Supply Warehouse (Columbia)	125 000
Bruce Flemming	Two Dormitories (Columbia)	772 381

EXHIBIT IX
DEC. 3, 1974

STATE BUDGET AND CONTROL BOARD
DIVISION OF GENERAL SERVICES
Agenda

December 3, 1974

I. Anticipated Budget Deficit -- Electricity and Fuel Oil

Attached is a comparison of energy consumption in the Capitol Complex buildings since July 1 of this year. Through changes in operation, reduction in lighting levels and more efficient operation, the attached chart shows a reduction of kilowatt usage of some 35% compared with November, 1973. The report further indicates, however, a rate increase of 115% for the same period.

The power company estimates a 10% fuel adjustment increase this month and 25% increase in the first half of 1975. Based on projections, additional funding for 1974-75 will be needed in the amount of $292,000.

ask for supplemental appr.

II. Anticipated Budget Deficit -- Printing State Documents

Public printing contract effective July of this year indicates that annual report printing costs are up approximately 200%, and legislative printing is up 30%. Based on comparable printing needs for the period of 1973 through July 1974, the increased costs will require additional funding of approximately $200,000.

III. Industrial Commission Relocation

The Chairman of the Industrial Commission has again requested additional funds in the amount of $42,436 for 1975-76 to enable them to relocate to Dutch Plaza. This figure does not include the cost of making the physical move. In addition, if the Industrial Commission is relocated, $45,423 will be required to assure rental of the space now occupied by that division. Thus, the total required for the move will be the full amount of the Dutch Plaza rent which is $87,859.

Since the 1975 budget process has passed the point of Board approval, it is recommended that this request be returned to the Industrial Commission for possible consideration during Legislative budget hearings.

direct that the matter go to W+M Comm.

IV. Tort Insurance

In 1975 the Legislature authorized the Budget and Control Board to provide Tort liability insurance for State employees, provided that the State's immunity is not waived. Advertisements for bids resulted in no offerings, and the proposed negotiated coverage does not appear to be satisfactory from the standpoint of cost.

This matter has been discussed with the Attorney General and he is willing to undertake adjudication of claims with costs to be paid from the premiums charged for the coverage. It is therefore recommended that the Budget and Control Board through this Division draw its own contract to be offered to the various entities at a premium cost which will protect the reserves of the insurance funds.

ok

EXHIBIT IX
DEC. 3, 1974

STATE BUDGET AND CONTROL BOARD
DIVISION OF GENERAL SERVICES
Agenda

December 3, 1974

I. Anticipated Budget Deficit -- Electricity and Fuel Oil

Attached is a comparison of energy consumption in the Capitol Complex buildings since July 1 of this year. Through changes in operation, reduction in lighting levels and more efficient operation, the attached chart shows a reduction of kilowatt usage of some 35% compared with November, 1973. The report further indicates, however, a rate increase of 115% for the same period.

The power company estimates a 10% fuel adjustment increase this month and 25% increase in the first half of 1975. Based on projections, additional funding for 1974-75 will be needed in the amount of $292,000.

ask for supplemental appr.

II. Anticipated Budget Deficit -- Printing State Documents

Public printing contract effective July of this year indicates that annual report printing costs are up approximately 200%, and legislative printing is up 30%. Based on comparable printing needs for the period of 1973 through July 1974, the increased costs will require additional funding of approximately $200,000.

III. Industrial Commission Relocation

The Chairman of the Industrial Commission has again requested additional funds in the amount of $42,436 for 1975-76 to enable them to relocate to Dutch Plaza. This figure does not include the cost of making the physical move. In addition, if the Industrial Commission is relocated, $45,423 will be required to assure rental of the space now occupied by that division. Thus, the total required for the move will be the full amount of the Dutch Plaza rent which is $87,859.

direct that the matter go to W+M Comm.

Since the 1975 budget process has passed the point of Board approval, it is recommended that this request be returned to the Industrial Commission for possible consideration during Legislative budget hearings.

IV. Tort Insurance

In 1975 the Legislature authorized the Budget and Control Board to provide Tort liability insurance for State employees, provided that the State's immunity is not waived. Advertisements for bids resulted in no offerings, and the proposed negotiated coverage does not appear to be satisfactory from the standpoint of cost.

This matter has been discussed with the Attorney General and he is willing to undertake adjudication of claims with costs to be paid from the premiums charged for the coverage. It is therefore recommended that the Budget and Control Board through this Division draw its own contract to be offered to the various entities at a premium cost which will protect the reserves of the insurance funds.

ok

ENERGY COMPARISONS

Month	1973 Usage KW (Millions)	Change KW	1974 Usage KW (Millions)	KW % Change 1973 to 1974	$ Rate % Change 1973 to 1974
Jul	2.6080	- .1080	2.5000	- 4.14	+ 77.38
Aug	2.9186	- .1871	2.7315	- 6.41	+ 94.73
Sep	3.1658	- .2189	2.9469	- 6.91	+ 53.08
Oct	3.6748	- .8713	2.8035	-23.71	+ 77.16
Nov	3.4507	-1.2069	2.2438	-34.98	+115.35
Dec	2.7930				

Rate for July, 1973 $.97/Hundred KW

Rate for November, 1974 $2.49/Hundred KW

Buildings and Grounds

Fuel Supplies		
#2 Oil	$ 11,200	
#5 Oil	12,800	
Total needed for Fuel Supplies for remainder of Fiscal Year 1974-75		$ 24,000
Water, Heat, Lights and Power		
Gas	$ 40,000	
Electricity	431,264	
Total needed for remainder of Fiscal Year 1974-75	$471,264	
Less amount budgeted for remainder of Fiscal Year 1974-75	203,675	
Total needed for remainder of Fiscal Year 1974-75 for Water, Heat, Lights and Power		$267,589
Total additional fundings needed for Buildings and Grounds		$291,589

The South Carolina Industrial Commission

ADMINISTERING THE WORKMEN'S COMPENSATION ACT
1026 SUMTER STREET

	PHONE
PAUL M. MACMILLAN, JR. CHAIRMAN	758-3120
JAMES J. REID	758-3348
T. M. NELSON	758-3498
J. DAWSON ADDIS	758-2134
HOLMES C. DREHER	758-2282
SARAH LEVERETTE	758-2393

Columbia, S. C. 29201

MRS. JEANNE B. ALLEN
EXECUTIVE ASSISTANT
PHONE 758-3251

November 22, 1974

Mr. P. C. Smith
State Auditor
P. O. Box 11333
Columbia, S. C. 29211

Dear Pat:

There is no need for me to go into too much detail on this request since it is very familiar to you and the Budget and Control Board.

We would like to request from the Budget and Control Board additional appropriations in the amount of $42,436.00 for our rental item. With this additional appropriation we will be able to move out to Dutch Plaza as of July 1, 1975. This will give us an additional 3,000 sq. feet and space which we so desperately need.

The necessity for this request is fully outlined in my October 30, 1974 letter to you and the Budget and Control Board. I want to strongly emphasize that the facilities out at the Dutch Plaza will be much more convenient for all of our employees, the attorneys that have to appear at our contested matters, and also the doctors, as there will be an abundance of parking spaces for everybody. Also, the rental fee of $5.60 per sq. foot includes all of the utilities. This seems to me to be a fair deal all the way around.

Very truly yours,

Paul M. Macmillan, Jr.
Chairman

PMMJr/rl

CC: His Excellency Gov. John C. West
CC: Honorable Grady Patterson
CC: Honorable Henry Mills
CC: Honorable Rembert Dennis
CC: Honorable Julian LeaMond
CC: Mr. Furman McEachern
CC: Mr. Jasper Harmon

EXHIBIT X
DEC. 3, 1974

December 3, 1974

GENERAL FUND

Revised Budget, 1974-75

- o -

Available Funds		
Brought Forward from 1973-74 -		
Regular General Fund	$ 15,275,470	
Revenue Sharing Funds	6,205,333	
		21,480,803
Estimated Revenue		
Regular Tax Sources (Revised)	875,022,000	
Revenue Sharing	28,715,000	
		903,737,000
Total Available		$ 925,217,803
Appropriations (Net)		952,715,902
Balance		($ 27,498,099)

December 3, 1974

SURPLUS FUNDS

Balance, End of 1973-74	$ 95,282,289
Less: Appropriated (1974) to Housing Bond Reserve Fund	10,000,000
	85,282,289
Less: Projected General Fund Loss, 1974-75	27,498,099
Projected Balance, End of 1974-75	$ 57,784,190

1975-76

Available Funds (Estimated)	
Surplus, End of 1974-75	$ 57,784,190
Revenue -	
Regular Tax Sources	978,035,000
Revenue Sharing	28,000,000
Debt Service Transfers	19,423,105
Total Available	$1,083,242,295
*Recommended Operating Appropriations - 1975-76	1,083,047,328
Balance	$ 194,967

* Recommended Expenditures	$ 1,094,797,328
Less: Anticipated Salary Lapses	11,750,000
Balance	$ 1,083,047,328

December 3, 1974

RECOMMENDED BUDGET FOR 1975-76

Agency	1974-75 Appropriation	1975 - 1976 Request	Recommended	Change Recommended: Present Personnel	Other	Total	Number of New Positions: Requested	Recommended
Legislative Department								
The Senate	1,222,723	1,231,244	1,255,967	30,244	3,000	33,244		
House of Representatives	2,120,074	2,292,008	2,325,409	49,106	156,229	205,335		
Special Services for Both Houses	67,143	110,374	112,566	2,112	43,311	45,423	2	2
Legislative Council	765,558	735,558	751,752	16,194	-30,000	-13,806		
Research, Auditing & Govt. Operations	102,600	102,600	102,600					
Total Legislative Department	4,278,098	4,471,784	4,548,294	97,656	172,540	270,196	2	2
Judicial Department	2,065,117	2,262,715	2,298,561	109,019	124,425	233,444	1	1
Executive & Administrative Division								
Governor's Office								
Executive Control of State	445,809	462,782	462,782	16,973		16,973		
Law Enforcement Division	4,065,064	4,781,422	4,753,444	259,529	428,851	688,380		
Division of Administration	4,354,853	3,015,032	2,762,012	36,754	-1,629,595	-1,592,841	1	1
Health & Social Development	250,000	323,986	323,986	19,804	54,182	73,986	9	9
Mansion and Grounds	142,852	145,621	145,621	2,769		2,769		
Total Governor's Office	9,258,578	8,728,843	8,447,845	335,829	-1,146,562	-810,733	10	10
Lieutenant Governor's Office	54,028	57,178	57,899	3,871		3,871		
Secretary of State's Office	276,787	298,745	298,745	11,320	10,638	21,958		
Comptroller General's Office	1,481,484	1,615,988	1,625,004	67,236	76,284	143,520	4	4
State Treasurer's Office	1,430,961	1,211,790	1,211,790	16,405	-235,576	-219,171		
Attorney General's Office	1,826,820	2,718,938	2,406,803	156,754	423,229	579,983	19	10
Adjutant General's Office	647,572	863,727	853,727	21,008	185,147	206,155	6	6
State Election Commission	1,551,593	681,200	677,873	9,219	-882,939	-873,720		
Budget and Control Board								
Finance Division	2,120,179	2,445,173	2,351,884	118,945	112,760	231,705	13	9
Research & Statistical Services	344,350	423,397	409,999	16,473	49,176	65,649	2	1
General Services	4,175,866	4,110,357	4,041,443	147,130	-281,553	-134,423	13	10
Retirement System	993,173	1,119,029	1,088,640	50,865	44,602	95,467	8	4
Personnel Division	1,160,895	1,441,151	1,373,781	63,244	149,642	212,886	10	5
Employee Benefits	103,286,998	124,869,066	123,504,876		20,217,878	20,217,878		
Total Budget and Control Board	112,081,461	134,408,173	132,770,623	396,657	20,292,505	20,689,162	42	29
Total Executive & Administrative Division	128,609,284	150,584,582	148,350,309	1,018,299	18,722,726	19,741,025	80	62

Agency	1974-75 Appropriation	1975-1976 Request	Recommended	Change Recommended: Present Personnel	Other	Total	Number of New Positions: Requested	Recommended
Educational Division								
Commission on Higher Education	1,117,069	1,494,179	1,248,245	15,898	115,278	131,176	4	0
Higher Education Tuition Grants	6,180,000	8,629,560	7,713,960		1,533,960	1,533,960	6	6
Colleges and Universities (excl. Medical Univ.)								
University of South Carolina	41,467,106	55,440,150	46,195,240	931,920	3,796,214	4,728,134	451	
USC Auxiliary Services	145,633				-145,633	-145,633		
USC Regional Campuses	5,189,096	7,559,123	6,224,476	130,672	904,708	1,035,380	89	56
Clemson University	25,082,857	31,457,650	28,453,610	781,356	2,589,397	3,370,753	174	
Clemson Auxiliary Services	106,557				-106,557	-106,557		
The Citadel	5,241,301	5,714,100	5,714,100	241,716	231,083	472,799		
Winthrop College	6,339,807	7,110,790	7,209,096	163,437	705,852	869,289	4	
Winthrop Auxiliary Services		387,500	387,500		387,500	387,500		
S. C. State College	5,943,245	7,085,999	6,854,166	180,292	730,629	910,921	8	
Francis Marion College	3,247,573	4,035,048	3,691,445	155,202	288,670	443,872	23	
College of Charleston	6,319,422	8,478,677	7,744,734	244,526	1,180,786	1,425,312	93	
Lander College	2,247,104	2,643,690	2,530,783	83,885	195,794	283,679	22	22
Total Colleges & Univ. (excl. Medical Univ.)	101,329,701	129,912,727	115,005,150	2,913,006	10,762,443	13,675,449	864	413
Medical University	40,637,265	45,884,494	43,181,860	1,089,806	1,454,789	2,544,595	297	
Department of Education	290,838,065	350,963,675	298,593,134*	253,995	7,501,074*	7,755,069*	9	7
Adv. Council on Voc. & Tech. Education	15,000				-15,000	-15,000		
Technical and Comprehensive Education	27,134,125	31,387,914	29,570,094	1,146,784	1,289,185	2,435,969	380	337
Educational Television Commission	6,939,388	9,508,780	8,572,628	395,128	1,238,112	1,633,240	55	9
S. C. Opportunity School	613,538	697,997	647,471	20,698	13,235	33,933	1	-5
School for the Deaf and the Blind	3,336,287	3,841,322	3,628,402	113,363	178,752	292,115	7	
Department of Archives and History	1,289,062	1,591,237	1,415,368	67,709	58,597	126,306	22	2
Confederate Relic Room	41,807	45,520	44,511	1,999	705	2,704		
S. C. State Library	1,627,722	2,080,007	1,687,830	16,637	43,471	60,108		
S. C. Arts Commission	597,855	2,490,490	646,783	12,159	36,769	48,928	21	
State Museum Commission	142,876	210,776	167,876	12,150	12,850	25,000		
Total Educational Division	481,839,760	588,738,678	512,123,312	6,059,332	24,224,220	30,283,552	1,666	978
Health Division								
Health and Environmental Control	30,132,193	48,620,798	28,872,450	1,974,703	-3,234,446	-1,259,743	737	0
Nuclear Advisory Council	25,000	86,418	50,000		25,000	25,000	4	2
Department of Mental Health	40,729,405	52,167,353	46,386,216	2,193,923	3,462,888	5,656,811	896	300
Department of Mental Retardation	25,875,689	33,138,704	29,580,727	1,506,812	2,198,226	3,705,038	626	147
Commission on Alcohol & Drug Abuse	1,022,127	2,728,800	1,209,647	100,745	86,775	187,520	-15	-15
Total Health Division	97,784,414	136,742,073	106,099,040	5,776,183	2,538,443	8,314,626	2,248	434

*5% increase for state aid for teachers shown as separate item on last page.

	1974-75 Appropriation	1975 - 1976 Request	Recommended	Change Recommended: Present Personnel	Other	Total	Number of New Positions: Requested	Recommended
Social Rehabilitation Services Division								
Department of Social Services	60,886,075	89,578,930	63,985,923	373,553	2,726,295	3,099,848		
Vocational Rehabilitation	5,090,707	6,193,001	5,637,829	88,654	458,468	547,122	7	5
John de la Howe School	659,754	710,302	711,807	17,839	34,214	52,053		
Children's Bureau	485,470	513,357	497,209	14,364	-2,625	11,739	1	0
Commission for the Blind	1,325,149	1,462,307	1,394,902	26,194	43,559	69,753	16	0
Commission on Aging	418,790	485,781	473,432	19,285	35,357	54,642		
State Housing Authority	444,345	433,879	318,768	12,023	-137,600	-125,577	-1	-1
Commision on Human Affairs	263,165	412,473	381,247	14,015	104,067	118,082	2	0
Total Social Rehabilitation Services Div.	69,573,455	99,790,030	73,401,117	565,927	3,261,735	3,827,662	25	4
Correctional Division								
Department of Corrections	14,739,492	22,354,179	18,725,286	1,158,852	2,826,942	3,985,794	274	200
Probation, Parole & Pardon Board	2,234,284	4,427,664	2,501,085	98,652	168,149	266,801	173	15
Department of Youth Services	5,872,541	7,503,693	6,738,743	647,490	218,712	866,202	88	0
Department of Juvenile Placement & Aftercare	435,694	555,006	513,083	33,375	44,014	77,389	10	2
Total Correctional Division	23,282,011	34,840,542	28,478,197	1,938,369	3,257,817	5,196,186	545	217
Conservation, Natural Resources & Development								
Water Resources Commission	615,955	990,672	738,935	21,338	101,642	122,980	9	3
State Land Resources Conservation Commission	855,735	1,407,043	958,430	63,781	38,914	102,695	5	0
State Forestry Commission	5,681,039	6,124,694	6,049,987	278,069	90,879	368,948		
Department of Agriculture	2,361,402	2,575,298	2,528,618	84,026	83,190	167,216		
Agricultural Marketing Commission	108,755	114,552	113,367	3,277	1,335	4,612		
Clemson University - P.S.A.	12,050,228	13,879,237	12,873,702	290,842	532,632	823,474	48	11
Wildlife and Marine Resources	4,090,133	6,104,505	4,722,523	206,200	426,190	632,390	40	10
Parks, Recreation and Tourism	4,396,464	5,229,489	4,843,394	241,969	204,961	446,930		
State Development Board	2,504,222	2,939,066	2,646,004	79,096	62,686	141,782		
Patriot's Point Development Authority	104,760	401,314	284,758	73,584	106,414	179,998	21	10
Public Railways Commission	285,000	282,334	282,334	-2,666		-2,666		
Total Conservation, Nat. Res. & Development	33,053,693	40,048,204	36,042,052	1,339,516	1,648,843	2,988,359	123	34

	1974-75 Appropriation	1975 - 1976 Request	Recommended	Change Recommended: Present Personnel	Other	Total	Requested	Recommended
Regulatory Division								
Public Service Commission	1,642,972	1,839,692	1,813,354	32,546	137,836	170,382	5	5
Industrial Commission	808,988	926,343	901,791	33,355	59,448	92,803	8	4
State Workmen's Compensation Fund	208,527	256,958	242,569	8,061	25,981	34,042	1	1
Insurance Department	2,134,973	2,169,940	2,172,374	38,394	-993	37,401		
Board of Bank Control	569,556	612,983	609,272	18,153	21,563	39,716		
Department of Consumer Affairs	60,000	280,300	280,300	4,709	215,591	220,300	21	21
State Dairy Commission	169,793	182,769	179,274	5,150	4,331	9,481		
Department of Labor	1,177,960	1,495,134	1,337,107	52,519	106,628	159,147	21	2
Aeronautics Commission	1,119,187	1,157,954	1,032,991	13,250	-99,446	-86,196		
Contractors' Licensing Board	95,605	112,294	105,482	4,617	5,260	9,877		
State Tax Commission	8,143,861	9,097,836	9,073,493	237,231	692,401	929,632	20	20
Alcoholic Beverage Control Commission	760,410	791,620	792,977	20,339	12,228	32,567		
Disaster Preparedness Agency	618,228	628,360	593,387	13,106	-37,947	-24,841	5	2
Department of Veterans Affairs	595,841	667,976	654,865	13,787	45,237	59,024	1	1
Employment Security Commission	61,920	67,038	67,335	4,606	809	5,415		
Total Regulatory Division	18,167,821	20,287,197	19,856,571	499,823	1,188,927	1,688,750	82	56
Debt Service	36,595,449	61,519,935	61,519,935		24,924,486	24,924,486		
Miscellaneous Division								
Miscellaneous Appropriations	955,441	987,101	487,101		-468,340	-468,340		
Contributions Division	280,730	261,130	249,830		-30,900	-30,900		
Aid to Subdivisions	71,591,000	78,360,000	71,591,000					
Total Miscellaneous Division	72,827,171	79,608,231	72,327,931		-499,240	-499,240		
Total General Fund	968,076,273	1,218,893,971	1,065,045,319	17,404,124	79,564,922	96,969,046	4,772	1,788
5% Cost of Living Increase (including FICA & Retirement								
State Employees			16,116,265	13,817,465	2,298,800	16,116,265		
School Teachers			13,635,744	11,363,120	2,272,624	13,635,744		
Grand Total	968,076,273	1,218,893,971	1,094,797,328	42,584,709	84,136,346	126,721,055	4,772	1,788

	1974-75 Appropriation	1975 - 1976 Request	Recommended	Change Recommended: Present Personnel	Other	Total	Requested	Recommended
Regulatory Division								
Public Service Commission	1,642,972	1,839,692	1,813,354	32,546	137,836	170,382	5	5
Industrial Commission	808,988	926,343	901,791	33,355	59,448	92,803	8	4
State Workmen's Compensation Fund	208,527	256,958	242,569	8,061	25,981	34,042	1	1
Insurance Department	2,134,973	2,169,940	2,172,374	38,394	-993	37,401		
Board of Bank Control	569,556	612,983	609,272	18,153	21,563	39,716		
Department of Consumer Affairs	60,000	280,300	280,300	4,709	215,591	220,300	21	21
State Dairy Commission	169,793	182,769	179,274	5,150	4,331	9,481		
Department of Labor	1,177,960	1,495,134	1,337,107	52,519	106,628	159,147	21	2
Aeronautics Commission	1,119,187	1,157,954	1,032,991	13,250	-99,446	-86,196		
Contractors' Licensing Board	95,605	112,294	105,482	4,617	5,260	9,877		
State Tax Commission	8,143,861	9,097,836	9,073,493	237,231	692,401	929,632	20	20
Alcoholic Beverage Control Commission	760,410	791,620	792,977	20,339	12,228	32,567		
Disaster Preparedness Agency	618,228	628,360	593,387	13,106	-37,947	-24,841	5	2
Department of Veterans Affairs	595,841	667,976	654,865	13,787	45,237	59,024	1	1
Employment Security Commission	61,920	67,038	67,335	4,606	809	5,415		
Total Regulatory Division	18,167,821	20,287,197	19,856,571	499,823	1,188,927	1,688,750	82	56
Debt Service	36,595,449	61,519,935	61,519,935		24,924,486	24,924,486		
Miscellaneous Division								
Miscellaneous Appropriations	955,441	987,101	487,101		-468,340	-468,340		
Contributions Division	280,730	261,130	249,830		-30,900	-30,900		
Aid to Subdivisions	71,591,000	78,360,000	71,591,000					
Total Miscellaneous Division	72,827,171	79,608,231	72,327,931		-499,240	-499,240		
Total General Fund	968,076,273	1,218,893,971	1,065,045,319	17,404,124	79,564,922	96,969,046	4,772	1,788
5% Cost of Living Increase (including FICA & Retirement								
State Employees			16,116,265	13,817,465	2,298,800	16,116,265		
School Teachers			13,635,744	11,363,120	2,272,624	13,635,744		
Grand Total	968,076,273	1,218,893,971	1,094,797,328	42,584,709	84,136,346	126,721,055	4,772	1,788

EXHIBIT A
AEG 2 1974

NAME	DATE OF HEARING	EMPLOYING AGENCY	NATURE OF GRIEVANCE	DECISION RENDERED
John H. Quillen	12-17-71	Wildlife Department	Dismissal	Employee Reinstated
Elizabeth B. Olinger	4-06-72	Greenville Tech.	Alleged Demotion	Agency Action Upheld
Sallie A. Williams	5-02-72	Dept. of Mental Health	Dismissal	Dismissal Upheld
Richard J. Payette	8-08-72	Dept. of Mental Health	Dismissal	Dismissal Upheld
Jackie Clark	8-15-72	Dept. of Mental Retardation	Dismissal	Dismissal Upheld
Calvin A. Langdale	9-13-72	Dept. of Youth Services	Termination	Agency Action Upheld
Landrum W. Kennedy	11-29-72	Dept. of Mental Retardation	Dismissal	Dismissal Upheld
Geneva E. Oree	12-20-72	Medical University of S.C.	Termination	Agency Action Upheld
Herbert L. Prince	6-14-73	Dept. of Mental Retardation	Dismissal	Employee REinstated
Jessie F. Mauldin	6-20-73	Dept. of Mental Retardation	Dismissal	Dismissal Upheld
Robert N. Stanley	2-12-74	Employment Security Comm.	Termination	Agency Action Upheld
Francis J. Preston	4-23-74	S.C. State College	Dismissal	Employee Reinstated
Charles J. Stephens	4-25-74	Medical University of S.C.	Termination	Agency Action Upheld
Delbert L. Howell	5-02-74	S. C. Ports Authority	Termination	Employee Reinstated
James E. Dudley	5-31-74	S. C. Ports Authority	Termination	Agency Action Upheld
Pamela P. W. Hamilton	8-13-74	Division of Administration	Failure to Receive A Promotion	Agency Action Upheld
W. K. Demian	8-21-74	Dept. of Social Services	Failure to Receive A Promotion & Harassment	Agency Action Upheld

NAME	DATE OF HEARING	EMPLOYING AGENCY	NATURE OF GRIEVANCE	DECESION RENDERED
Sadie B. Green	9-17-74	Medical Univeristy of S.C.	Dismissal	Agency Action Upheld
Issy T. Sharpe	9-25-74	Employment Security Comm.	~~Demotion~~ Involuntary transfer	Agency Action Reversed
Francis M. Northrop	10-30-74	Trident Tech.	Dismissal	Employee to be re-employed