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7.5 T/D NYLON EXPANSION PROJECT

AID Loan No. 489-H-036

MONTHLY PROGRESS REPORT

Number (3)

F o r

September 1967

PREPARED BY

KOREA NYLON COMPANY

F O R

KOREAN GOVERNMENT

A N D

UNITED STATES

DEPARTMENT OF STATE

AGENCY FOR INTERNATIONAL DEVELOPMENT

A.I.D.  
Reference Center  
Room 1656 NS

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## SUMMARY

Under the close cooperation with Chemtex, Kolon's 7.5 M/T plant expansion works have been progressed steadily in this report period. The construction progress of main plant building has lagged behind the schedule mainly due to temporary shortage of labor force during the traditional holiday period. Other auxiliary construction works have gone on schedule.

Welfare facilities for Kolon employees such as dormitories and mess hall were set about in September to aim at early completion and these facilities will be available to use by the end of 1967.

Bong-Shik, Cho, Vice-president of Kolon has stayed in U.S.A. and has made every efforts with Chemtex to shorten the vendors' manufacturing period of loan equipments. The prospect of scheduled test-run of polymerization and textile areas will be optimistic at the present viewpoint.

## CHAPTER I. ENGINEERING ACTIVITIES

Edward H. Emerson of Chemtex came to Kolon on Sept. 16, 1967 to coordinate various engineering factors especially in the field of expedition of shipment. And that both parties reaffirmed that scheduled polymerization test-run will be performed in the middle of December 1967 and spinning test-run in the middle of January 1968 respectively.

Drawings, designs and other technical informations pertaining to Flow Sheet, Arrangement & Layout, Foundation, Piping, Structural, Tank, Electrical, and Spare Part & Equipment which Chemtex has furnished to Kolon during the report period are as follows:

### DRAWING LIST

#### FLOW SHEET

<u>DATE</u>	<u>DWG. NO.</u>	<u>DESCRIPTION</u>
9/4/67	58278 Re	60° - 73° Cooling Tower Water

#### ARRANGEMENT AND LAYOUT

9/2/67	53120-a	Power House - Roof Plan & Stack
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#### FOUNDATION

9/5/67	52965-a	Textile Area Ground Floor
9/20/67	52975	Power House

PIPINGS

<u>DATE</u>	<u>DWG. NO.</u>	<u>DESCRIPTION</u>
9/22/67	53142	Power House - Chilled Water
9/22/67	53143	Power House - Chilled Water
9/23/67	53144	Power House - Water and Air
"	53145	Power House - Diesel Generator
"	53146	Power House - Boiler Room
"	53148	Power House - Piping Sections
"	53149	Power House - Piping Arrangement
"	52983	Monomer Extraction - Piping Plan
"	52984	Monomer Extraction - Piping Section
"	52985	Monomer Extraction - Piping Details
"	52990	Monomer Recovery - Ground, 2nd and 3rd Floor
"	52991	Monomer Recovery - Piping Section
"	52992	Polymerization - 1st Floor Plan and Sections
"	52993	Polymerization - 2nd Floor Plan and Sections
"	52994	Polymerization - 4th Floor Plan and Sections
"	52995	Polymerization - 4th Floor Plan & Sections

STRUCTURAL

9/1/67	52971-a	Pump Block Structural Support
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TANK

<u>DATE</u>	<u>DWG. NO.</u>	<u>DESCRIPTION</u>
9/1/67	42085-a	Chip Transfer Bin
"	53039-a	Molten Monomer Storage Tank
"	53040-a	Wash Water Circulating Tank
9/4/67	53038-b	Monomer Melt Tank
"	39009-o	G. 20" Square Manhole Hinged Type, Low Press Type
"	39011-o	G. 16" Dia. Manhole 100# Press Design
"	39012-o	G. 20" Square Manhole Nonpress Type
"	39013-o	G. 16" Dia. Manhole w/Sight Glass Low Press
9/5/67	31131-o	Transfer Bin Carrier
"	31169-o	Final Settling Tank
"	31170-o	Intermediate Settling Tank
9/15/67	39010-o	16" $\phi$ Manhole Low Press
9/19/67	53037-o	Final Dryer
"	53044-o	Predryer
9/20/67	53036-o	Monomer Extraction Tank
"	53038-o	Monomer Melt Tank
9/30/67	53035-o	Wet Chip Storage Tank
"	53037-a	Final Dryer
"	53044-a	Predryer

SPARE PART & EQUIPMENT

<u>DATE</u>	<u>DWG. NO.</u>	<u>DESCRIPTION</u>
9/8/67	53083-a	Polymerizer Assembly
"	53031-a	Polymerizer Tower
"	42182-a	Polymerizer Hanger Details
9/20/67	53031-b	Polymerizer Tower
9/22/67	31127-o	Motor Mount
"	42042-o	Extruder Base Frame
"	42107-a	Motor Mount Support Frame
"	42109-b	Drive Support Beam
"	42114-o	Spin. Block Support Assembly
"	52948-a	Quench Chamber Hinged Panel
"	53086-a	Spin. Block Insulation - Experimental
"	53087-a	Spin. Block Insulation
"	53096-a	Y Branch Insulation
"	53097-o	Manifold Insulation
"	53104-a	Spin. Block & Drive Support Assembly
"	53240-o	Extruder Drive Guard
"	22275-o	Tie Clip
"	22184-o	Angle
"	22185-o	Stop Bracket
"	22186-o	Bottom Plate
"	22187-o	Mounting Blocks
"	22188-o	Mounting Block Shins

SPARE PART & EQUIPMENT (cont'd)

<u>DATE</u>	<u>DWG. NO.</u>	<u>DESCRIPTION</u>
9/27/67	10263	Melt Pool Probe - Insulators
"	20748-a	Quench Chamber - Screen Latch
"	21476-a	Quench Chamber - Hinge Bracket
"	21628-o	Quench Chamber - Hinge Clevis
"	21630-o	Quench Chamber - Hinge Pin
"	22169-o	Quench Chamber Screen Assembly - Perforated Plate
"	22277-o	Quench Chamber - Interfloor Tube - Cover Plate
"	22278-o	Quench Chamber - Interfloor Tube - Bracket
"	31104-o	Quench Chamber - Hinge Leaf
"	31105-o	Quench Chamber - Screen Assembly - Honey Comb
"	31112-o	Quench Chamber - Interfloor Tube - Support
"	31163-o	Quench Chamber - Interfloor Tube - Flange
"	42056-o	Quench Chamber - Perforated Plate Rack
"	42058-o	Quench Chamber - Cover Plate
"	42138-o	Polymer Extrusion - Motor Pedestal

SPARE PART & EQUIPMENT (cont'd)

<u>DATE</u>	<u>DWG. NO.</u>	<u>DESCRIPTION</u>
9/27/67	42158-a	Heating Jacket Insulation Details
"	42161-o	Quench Chamber - Interfloor Tubing
"	42162-o	Quench Chamber - Bracket
"	42166-o	Quench Chamber - Center Panel
"	42192-a	Polymerizer Pump Block
"	52948-o	Quench Chamber - Hinged Panel
"	52942-o	Quench Chamber - Air Duct
"	52949-o	Quench Chamber - Screen Assembly
"	52031-c	Polymerizer Tower
"	53084-o	Quench Chamber - Air Duct Transition Piece
"	53099-o	Quench Chamber - Monomer Air Duct
"	53111-a	Polymer Extrusion Head Assembly
"	53160-a	Polymer Extrusion Head Heating Jacket
"	53164-a	Polymer Extrusion Head Heating Jacket Insulation Details
"	53227-o	Quench Chamber Assembly

VENDORS' ENGINEERING INFORMATION

<u>Drawing, B/M or Specification No.</u>	<u>Title</u>
Dwg. A-10621 Manuals	Electric Heating Equip. Co. - Heater Assy. (CT132-20) Bahnson Co. (CT 132-92)
Installations Inst.	Chemineer, Inc. (CT-132-64)
Spare Parts and Instruction Manuals	Eaton Yale & Towne - CT 132-31
Dwg. 214573	Safety Valve Drawing - Babcock & Wilcoc CT 132-13
Dwg. BO-16477	Yarway Blow-off Valve - CT 132-13
Manuals	Operating Instructions for Package Boilers CT 132-13
Dwg. A-22923-14	The Whitlock Mfg. Co. CT 132-58
Dwg. A-19645-48	The Whitlock Mfg. Co. CT 132-58
Dwg. A-19626-78	The Whitlock Mfg. Co. CT 132-58
Dwg. A-19618-24	The Whitlock Mfg. Co. CT 132-58
Inst. Manual M-2	Operating Instructions for Whitlock Hi-Transfer Heat Exchangers - CT 132-58
Dwg. 17891-B	Bendix Corp. CT 132-57 Nitrogen Generator
Dwg. 17891-C	Ditto
Dwg. 17891-D	Ditto
Dwg. N-129442	Howe Richardson - Magna-Weight CT 132-
Dwg. 010479	Chicago Pneumatic Tool - General Arrgt.
Operations and Maint. Instructions	Roto-Bin-Dicator Level Control CT 132-138
Parts List (66-101 RA)	Roto-Bin-Dicator CT 132-138

<u>Drawing, B/M or Specification No.</u>	<u>Title</u>
Parts List 66-100R	Roto-Bin-Dicator CT 132-138
Parts List	Model KF-2 Aquameter CT 132-84
Manuals	Models KF-2 and KF-3 Aquameters CT 132-84
Instruction Manuals	Model G pH Meter CT 132-84
Sketch No. 1	Heater Assembly - CT 132-80
Dwg. 17-3018-00	Floor Plan - Take-Ups CT 132-4
Dwg. 17-3019-00	Floor Plan - Take-Ups CT 132-4
Dwg. L-124923	Magna-Weigh Dial - CT 132-48
Parts List PL-AM-1	Adj. & Maint. Instructions for Tape Drive Dial Mechanism
Parts List DH-2	Dial Head Components - CT 132-48
Parts List 2632	Portable & Bench Scales - CT 132-48
Sketch 2202X	Strahman Tubuler Gauge Assy
Instructions	Operation & Maint. of Elliott Steam Jet Ejectors
Sketch S-445170	11E & 15E Steam Jet Ejectors
Dwg. 6276-X	Downtherm Vent Condenser CT 132-67
Manuals	Impedance Heating Instruction Booklets H-4698 CT 132-68
Dwg. CP-1223	Control Valve Actuator & Accessories CT 132-121
Dwg. G-66389-A	Actuator and Accessories CT 132-121
Instructions	Parts Reference No. 77-4 Pressure Filter Reg. CT 132-121
Instructions	Parts Reference No. 7000 Series Control Valve Positioners

<u>Drawing, B/M or Specification No.</u>	<u>Title</u>
Instructions	Parts Reference Series 10000 Control Valves
Instructions	Parts Reference Series 2700 Pressure Contro- llers and 3700 Temperature Controllers
Dwg. 193692	Patterson-Kelley Co. CT 132-87
Maintenance Manuals	New York Blower Co. CT 132-109
Dwg. B-12	Type P Pressure Blower CT 132-109
Parts List	2740 & 2741 Series CT 132-103
Installation Manuals	Care and Maintenance - Safety & Relief Valves CT 132-103
Dwg. 210M508A1	C-210-K Exchanger CT 132-95
Dwg. GF-10299	Liquid Level Transmitter CT 132-99
GF - 9427	Type 67 FR Filter Regulator CT 132-99
GF 12603	2" Pressure Gauge Back Connected CT 132-99
52001	Pneumatic Control Controller CT 132-99
Feh/67H173-1	RH Sectional Screw Conv. CT 132-86
Submittal Data	Trane Co. CT 132-125
Dwg. 67-1236-1,2,3	Vertical Turbine Pump CT 132-82
Dwg. 67-1236-4,5,6	Vertical Turbine Pump CT 132-82
Dwg. 85149	Finish Circulation Pump CT 132-76
Dwg. 247-72	Goulds Pumps CT 132-76 <sup>f</sup>
Dwg. 251-9	Goulds Pumps CT 132-76
Dwg. 247-72	Goulds Pumps CT 132-76
Section 4050	Performance Data CT 132-97

<u>Drawing, B/M or Specification No.</u>	<u>Title</u>
Form 3D-118	Pump Dimension Sheets CT 132-97
Form 3D	Parts list and Instructions CT 132-97
Dwg. A10564	Gate Valve CT 132-46
Dwg. A10565	Gate Valve CT 132-46
Form 3205	Aftercooler with moisture Separator CT 132-149
Dwg. 8771-D-1AA	Foundation Plan for 6x5 Esh Compressor
Dwg. 57P-536-C	Unit Filters Double V-Arrgt. CT 132-134
Sketch	Tuttle & Bailey CT 132-142
Spec. No. SI-563	Shutter Pressure Relief CT 132-143
Spec. No. L235-364	Stationary Louver CT 132-143
Dwg. FG-148A	Dimension print CT 132-110
Dwg. PH-214A	Dimension print CT 132-110
Dwg. ST-123A	Dimension print CT 132-110
B-23539	High Efficiency Unit type air filter CT 132-108
Bulletin AD-98	Type AF1 and AF2 Air filters CT 132-108
Dwg. 7-868270-12	Diagram Magnetic Drive CT 132-6
Dwg. 7-868270-12	Schematic Diagram Magnetic Drive CT 132-6
Dwg. 7-868260-12	Connection Diagram CT 132-6
Dwg. 7-868260-11	Schematic Diagram Volta Regulator CT 132-6
S-3392	Dimension Print CT 132-1
Dwg. 7-868250-11	Schematic Diagram CT 132-1

<u>Drawing, B/M or Specification No.</u>	<u>Title</u>
Dwg. 7-868250-12	Diagram Magnetic Drive CT 132-1
-	Instruction Manual - Drives & Systems CT 132-6
-	Instruction Manual - Drives & Systems CT 132-6
Dwg. ED-7692-301-0	Dowtherm Heater Control Panels CT -132
Dwg. WP70342-01	Wiring & Piping Control Panel CT 132-12
Dwg. 70342-01-001	Fabrication Control Panel CT 132-12
Form 77-5241	Specification Data
Form 95-2302	Installation Instructions
Form 74-1269	Specification Data
Form 74-3212	Specification Data
Form S 710-1c	Low Pressure Indicating Controllers
Form 74-1232	Specification Data
Form 77-9268	Specification Data
Form 77-9293	Specification Data
Form 77-9212	Specification Data
Form 77-9260	Specification Data
Form 77-9269	Specification Data
Form 77-9237	Specification Data
Form 77-9275	Specification Data
Form 77-9287	Specification Data
Form 77-9205	Ditto

<u>Drawing, B/M or Specification No.</u>	<u>Title</u>
Form 77-9204	Specification Data
Form 77-9283	Ditto
77-9207	"
Form B-9	"
Form 77-5212	"
Form 77-5256	"
Form 77-5213	"
Form 77-5214	"
1-91-2	Instruction Manual
Manual	Instructions No. 3097 CT 132-12
Manual	Instructions 3020-A CT 132-12
Manual	Instructions - Section 1487 CT 132-12
Manual	Instructions - K-168-A CT 132-12
Manual	Instructions - Elektronik #15 Multipoint Recorder CT 132-12

## CHAPTER II. CONSTRUCTION ACTIVITIES

The construction work of main plant building has been progressed 12.07% during the report period and total progress status as of the end of September 1967 marked 59.41% (Please refer to Chart No. 1)

As shown in the construction progress chart, actual progress rate has lagged behind the schedule to some extent. Such delay of main plant construction work was mainly attributable to the temporary shortage of labor force during the period of the autumn festival, and to the trifling changes of designs of work. Attached photographs illustrate the vivid construction works.

The construction contracts of welfare facilities such as women's and men's dormitories, bachelor's dormitory, mess hall and guard house were signed on Sept. 7, 1967 between Kolon and Sam Hwan Enterprise Co., and started construction works in the week of September 14th.

Local fabrication works with loan materials started around the end of September and firstly 47 tanks such as Melt Tank, Lactam Storage & Blending Tanks, Chip Transfer Bins, Quench Troughs, Extraction Tanks, etc., are now fabricating at the plant site in accordance with the drawings and instructions furnished by Chemtex.

CONSTRUCTION PROGRESS CHART (MAIN BUILDING)  
As of September 30, 1967

Chart No. 1

Name of Works	Progress Rate	Chart No. 1										
		4	5	6	7	8	9	10	11	12		
Temporary Work	8.47	0	3.13	15	22.95	33.47	48.52	68.46	79.40	89.54	100	
Reinforced Concrete Work	35.28	0	5	30	50	75	100	43.64	54.78			
Water Proofing Work	10.40						94.87	97.62	0	60	100	
Plaster's Work	15.22				0	1	3	10	40	70	95	100
Other Works	36.63		4.46	12.55	14.97	19.55	36.41	68.00	75.28	89.41	100	
Total	100	0	3.40	16.27	24.89	36.30	52.63	74.26	86.13	94.95	100	
							30.63	52.30				
							47.34	59.41				

The following table shows the detailed status of each auxiliary construction work.

Construction Status of Auxiliary Works

(As of September 30, 1967)

<u>Name of Work</u>	<u>Contract Date</u>	<u>Name of Contractor</u>	<u>Progress Rate</u>
Power House	6/18/67	Sam Hwan Enterp. Co.	52.31%
Bunker-C Oil Tanks	5/5/67	" " "	Completed
Carpenter's Shop	8/22/67	Hwa Sung Ind. Co.	67.7%
Spare Parts Warehouse	8/22/67	" "	27.5%
Pirns & Cartons Warehouse	8/22/67	" "	12.8%
Men's Dormitory	9/7/67	Sam Hwan Enterp. Co.	Under construction
Women's Dormitory	"	" "	"
Bachelor's Dormitory	"	" "	"
Mess Hall	"	" "	"
Guard House	"	" "	"

As shown in the above table, fabrication and installation work of Bunker-C Oil Tanks was completed on September 10, 1967.

CHAPTER III. FINANCIAL DATA

Total disbursement of AID Loan Fund incurred until the end of September 1967 amounts to US\$2,038,812.15 and the balance is US\$3,771,187.85. Total local currency disbursed as of the end of September marks 143,793,548 won. And payments of local currency have been financed by Kolon entirely with its own fund.

Following tables show the details of AID Loan drawing status and disbursement of local currency for the 7.5 M/T Expansion Works.

AID Loan Drawing Status

As of the end of Sept.1967

<u>Invoice No.</u>	<u>B/L No.</u>	<u>Drawn Date</u>	<u>Description</u>	<u>Amount</u>
2852-8	14	9/7/67	Hand Pallet Trucks & Fittings	57,748. <u>57</u>
2871-9	41	9/15/67	Metering Pumps & Transducers	149,090. <u>16</u>
2872-10	1-84483	9/21/67	Drawtwisters & Metering Pumps	93,371. <u>22</u>
2877-11	23	9/21/67	Drawtwisters & Motors	275,834. <u>49</u>
2878-12	4001	9/25/67	Steel Tubes	99,373. <u>77</u>
2880-13	214-1120	9/25/67	Water Softening System	20,022. <u>79</u>
2886-14	107-17677	9/28/67	Cooling Tower	11,236. <u>37</u>
2887-15	35	9/28/67	Water Chiller & Drawtwisters	146,076. <u>74</u>

AID Loan Drawing Status (cont'd)

<u>Invoice No.</u>	<u>B/L No.</u>	<u>Drawn Date</u>	<u>Description</u>	<u>Amount</u>
2888-16	29	9/28/67	Controller & Fork Lift Trucks	24,336. <u>13</u>
Amounts in this Report Period				877,090. <u>24</u>
Amounts in previous report periods				1,161,721. <u>91</u>
Cumulative totals through this report period				2,038,812. <u>15</u>

Notice for Correction

Please be advised that total disbursement of AID Loan as of the end of August was US\$1,161,721.91 not US\$1,219,470.48.  
(Please see first paragraph, Chapter III in Progress Report No. 2).

Expenditures on 7.5 M/T Expansion Works

(Local Currency)

Unit: Won

<u>Items</u>	<u>Balance carried over</u>	<u>1967 September</u>	<u>Total</u>
(1) Bldg. Construction Works	86,851,110	23,213,445	110,064,555
(2) Structures	3,676,768	634,205	4,310,973
(3) Preliminary Works	7,306,548	935,435	8,241,983
(4) Temporary Works	570,894	3,300	574,194
(5) Land	534,000	138,000	672,000
<u>Sub-Total</u>	<u>98,939,320</u>	<u>24,924,385</u>	<u>123,863,705</u>
(6) Salaries & Wages	2,650,616	701,594	3,352,210
(7) Welfare Exp.	694,003	13,956	707,959
(8) Office Exp.	1,017,479	106,790	1,124,269
(9) Travel Exp.	431,546	39,640	471,186
(10) Communication Exp.	86,132	300	86,432
(11) Consumables	80,434	44,610	125,044
(12) Engineering Stay Exp.	376,567	20,000	396,567
(13) Engineering Research Exp.	86,060	-86,060	-
(14) L/C Open Charges	3,921,055	-	3,921,055
(15) Entertainment Exp.	8,598,993	214,815	8,813,808
(16) Other Exp.	784,563	146,750	931,313
<u>Sub-Total</u>	<u>18,727,448</u>	<u>1,202,395</u>	<u>19,929,843</u>
<u>Grand Total</u>	<u>117,666,768</u>	<u>26,126,780</u>	<u>143,793,548</u>

Notice: Engineering research expense of 86,060 won is deducted since the expense, analysing the details of the item, should be distributed to business activities of existing 2.5 M/T plant.

RECORD SHEET

KOREA NYLON CO., LTD.

CODE NO.

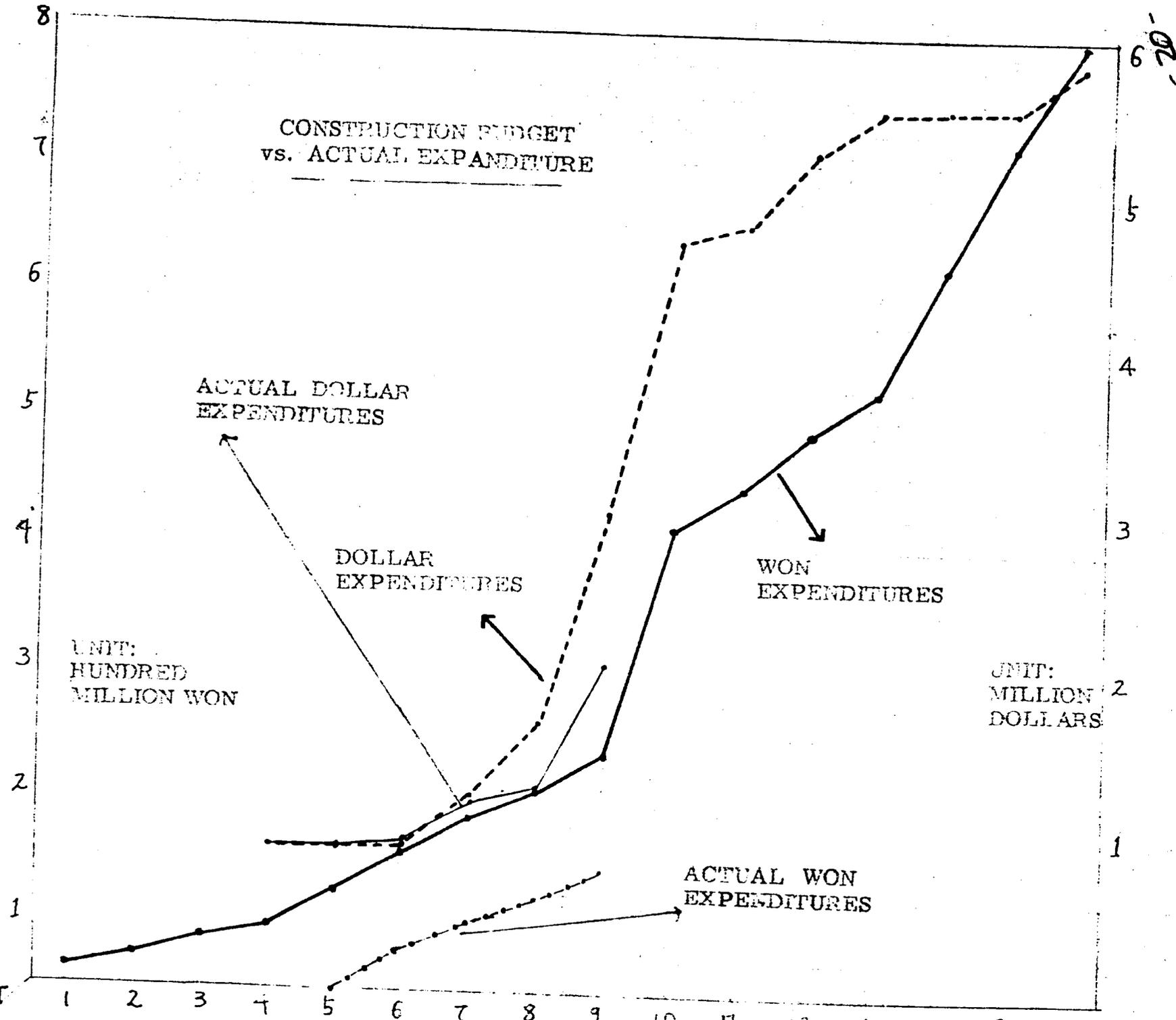
SHEET NO.

DATE

BY

SUBJECT

AMOUNT



CHAPTER IV. PERSONNEL

To deal with increasing business affairs concerning unloading, local transportation and customs clearance of loan equipments, personnel of supply section of construction dept. has been increased 8 persons by transferring 2 persons from production section and procurement section respectively. Now the membership of construction department has become 21 persons in total.

Total labor force put into 7.5 M/T Expansion Works until the end of September 1967 is as shown below:

Unit: Man/Day

<u>Classification by Construction Work</u>	<u>Contractor</u>	<u>Kolon</u>	<u>Temporary Hire by Kolon</u>	<u>Total</u>
Main Plant Building	21,399	307	-	21,706
Power House	1,521	68	-	1,589
Other Const. Works	6,139	275	162	6,576
<u>Total</u>	<u>29,059</u>	<u>650</u>	<u>162</u>	<u>29,871</u>

Labor Force Employed by Month

Unit: Man/Day

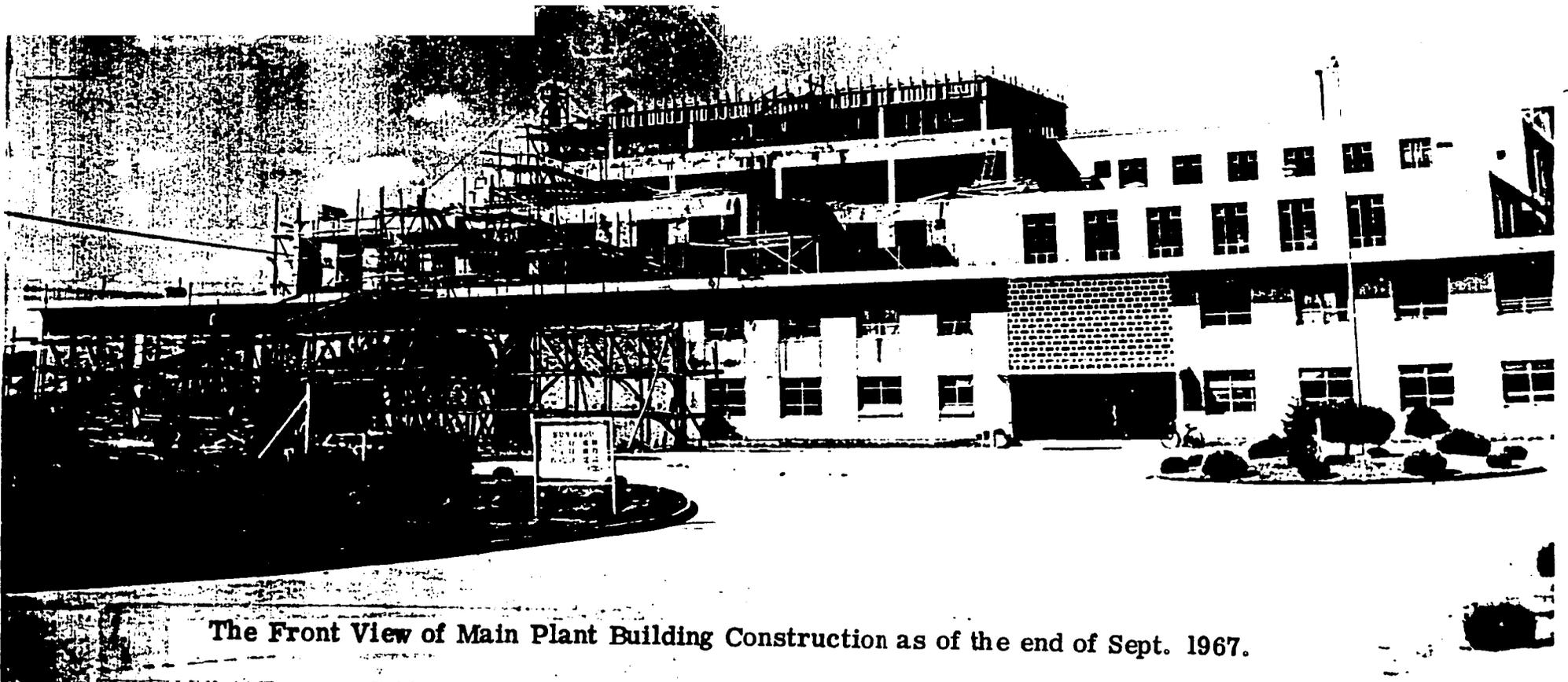
<u>Name of Works</u>	<u>Until May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	<u>Total</u>
Main Plant Building	5,273	3,218	5,374	4,434	3,407	21,706
Power House	-	-	593	663	333	1,589
Other Const. Works	234	789	1,368	1,195	2,990	6,576
<u>Total</u>	<u>5,507</u>	<u>4,007</u>	<u>7,335</u>	<u>6,292</u>	<u>6,730</u>	<u>29,871</u>

CHAPTER V. PROCUREMENT ACTIVITIES

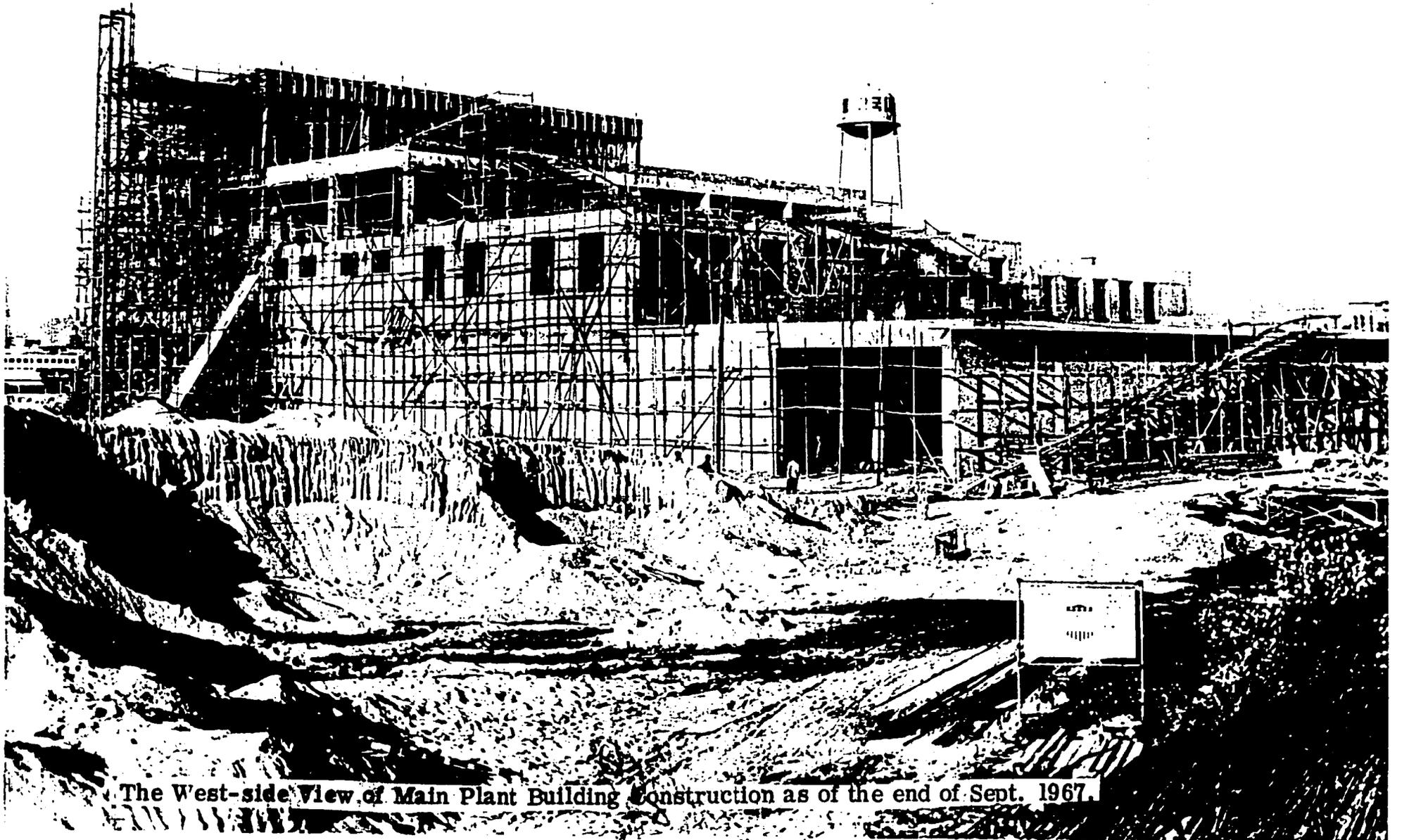
Loan materials shipped per S.S. Pioneer Main, S.S. American Crusader and S.S. Steel Seafarer, all U.S. liner vessels, were carried into the plant site during the report period.

The items are as follows:

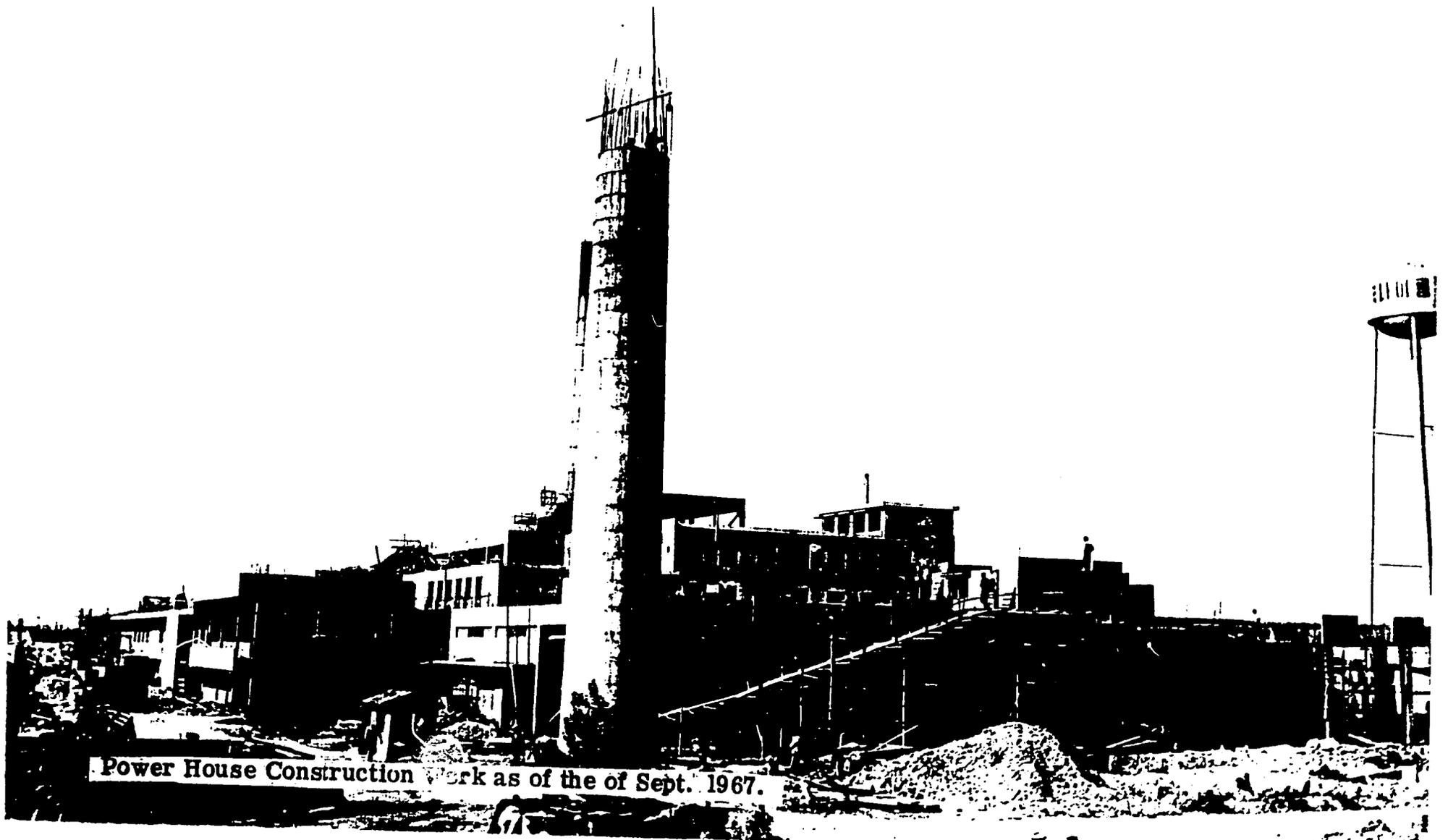
<u>P. O. No.</u>	<u>Description of Item</u>	<u>Carried-in Date</u>	<u>Amount (US\$)</u>
CT 132-5	Black Steel Pipe & Fittings		
CT 132-26	S/S Plates & S/S Sheets		
CT 132-28	Steel Fittings	9/4/67	51,994. <u>09</u>
CT 132-34	Shaft Shear Pins		
CT 132-45	Steel Galvanized Sheets		
CT 132-26	S/S Plates	9/8/67	69,855. <u>90</u>
CT 132-5	Pipe Fittings etc.	9/6/67	67,939. <u>49</u>
CT 132-36	Steel Tubes	9/6/67	111,720. <u>00</u>
Amounts in this Report Period			301,509. <u>48</u>
Amounts in previous Report Periods			107,867. <u>56</u>
Cumulative Totals through This Report Period			409,377. <u>04</u>



The Front View of Main Plant Building Construction as of the end of Sept. 1967.

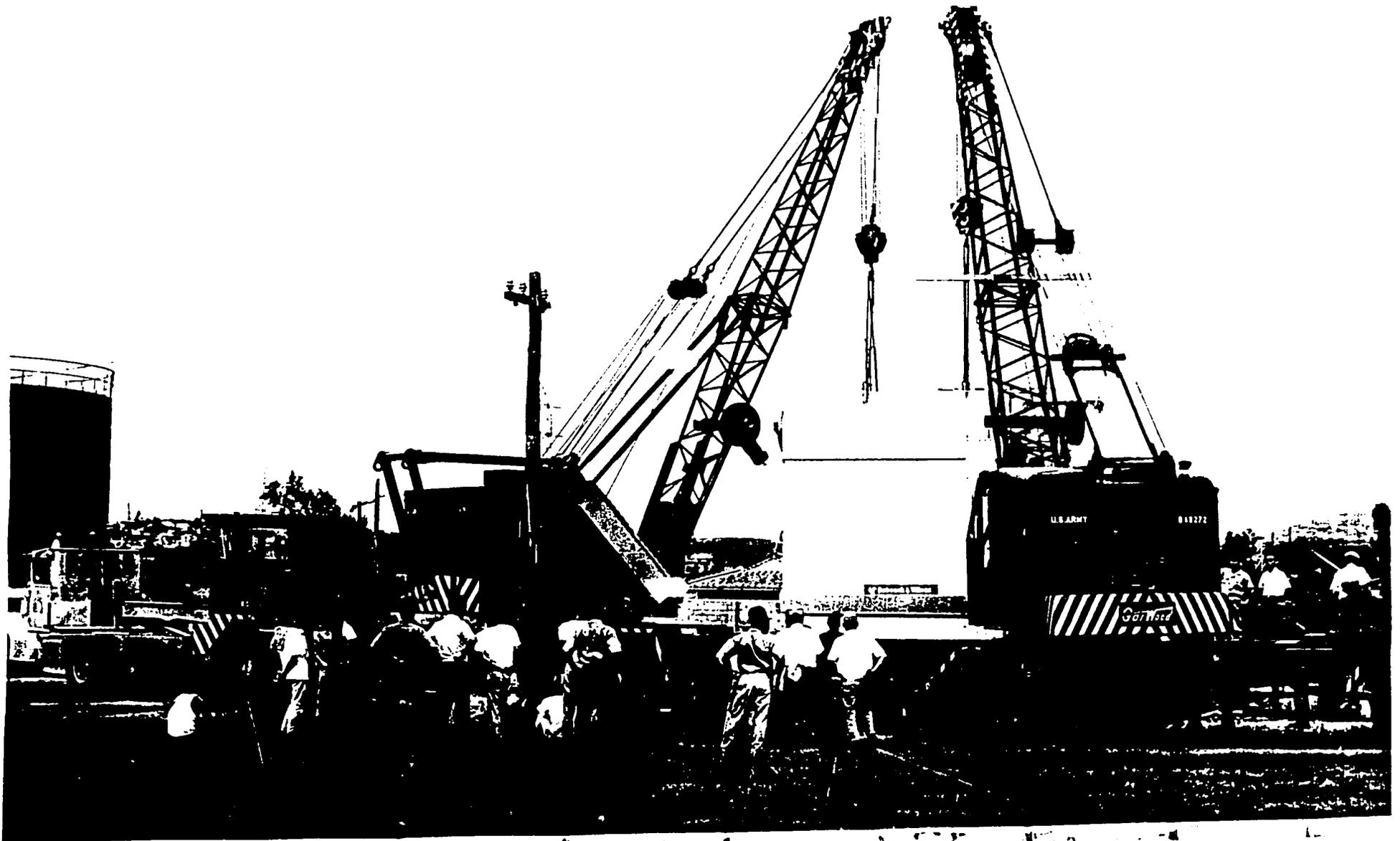


HC - The West-side View of Main Plant Building Construction as of the end of Sept. 1967.



Power House Construction work as of the of Sept. 1967.

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Unloading Work of Containerized Loan Equipment at the Plant site.

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