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DESIGN REPORT

DEPARTMENT OF ENERGY

FUELS FROM BIOMASS SYSTEMS BRANCH

ADVANCED SYSTEM DEMONSTRATION

FOR UTILIZATION OF BIOMASS

AS AN ENERGY SOURCE

CONTRACT EG-77-R-06-1036

VOLUME V. ELECTRICAL AND INSTRUMENTATION

ELEMENTARY DIAGRAMS AND INSTRUMENT INDEXES

MAY, 1979

PREPARED BY

WHEELABRATOR CLEANFUEL CORPORATION

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document folder.

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3.	02-25-0224A	M-0224A	Hog-Swing Hammer Type (Stand-by)
4.	02-25-0224B	M-0224B	Hog-Swing Hammer Type
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7.	02-25-0261B	M-0261B	EF-2 Fan
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17.	03-25-0303	M-0303	Morpholine Tank Agit
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21.	03-25-0307	M-0307	Hydrazine Tank Agit.
22.	03-25-0308A	M-0308A	Hydrazine Pump No. 1
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	<u>DWG. NO.</u>	<u>MOTOR NO.</u>	<u>NAME</u>
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25.	03-25-0310	M-0310	Bark Bucket Elev.
26.	03-25-0311	M-0311	Conveyor to Bark Distributor
27.	03-25-0312	M-0312	Bark Flight Distributor Conveyor
28.	03-25-0313A	M-0313A	Screw Feeder No. 1
29.	03-25-0313B	M-0	Screw Feeder No. 2
30.	03-25-0313C	M-0313C	Screw Feeder No. 3
31.	03-25-0313D	M-0313D	Screw Feeder No. 4
32.	03-25-0313E	M-0313E	Screw Feeder No. 5
33.	03-25-0313F	M-0313F	Screw Feeder No. 6
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35.	03-25-0320	M-0320	F. D. Fan
36.	03-25-0323	M-0323	Distributor Air Fan
37.	03-25-0331	M-0331	Bucket Elev.
38.	03-25-0337A	M-0337A	Stoker No. 1
39.	03-25-0337B	M-0337B	Stoker No. 2
40.	03-25-0345	M-0345	Heating Unit HU-1
41.	03-25-0346	M-0346	Fan EF-1
42.	03-25-0347	M-0347	Fan EF-3
43.	03-25-0351	M-0351	Air Handling Unit AH-1
44.	03-25-0352	M-0352	Air Handling Unit AH-2
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46.	03-25-0354	M-0354	Air Handling Unit AH-4
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49.	04-25-0403C	M-0403C	Condenser Hot Well Pump No. 3

	<u>DWG. NO.</u>	<u>MOTOR NO.</u>	<u>NAME</u>
50.	05-25-0501A	M-0501A	Cooling Tower Fan
51.	05-25-0501B	M-0501B	Cooling Tower Fan
52.	05-25-0502A	M-0502A	Cooling Tower Pump
53.	05-25-0502B	M-0502B	Cooling Tower Pump
54.	05-25-0506	M-0506	Phosphate Tk. Agit.
55.	05-25-0507	M-0507	Phosphate Metering Pump
56.	06-25-002		High Pressure Sluice Water Valves
57.	06-25-0601A	M-0601A	Pri. Collector Rotary Airlock
58.	06-25-0601B	M-0601B	Pri. Collector Rotary Airlock
59.	06-25-0601C	M-0601C	Mech. Collector Rotary Airlock
60.	06-25-0604	M-0604	I. D. Fan
61.	06-25-060A	M-0606A	Sand Classifier
62.	06-25-0606B	M-0606B	Sand Classifier
63.	06-25-0606C	M-0606C	Sand Classifier
64.	06-25-0609A	M-0609A	Precipitator Screw Conv.
65.	06-25-0609B	M-0609B	Precipitator Screw Conv.
66.	06-25-0609C	M-0609C	Precipitator Screw Conv.
67.	06-25-0616	M-0616	Clinker Grinder (B to Ash Hop)
68.	06-25-0624A	M-0624A	Sand Classifiers Rotary Airlock
69.	06-25-0624B	M-0624B	Sand Classifiers Rotary Airlock
70.	06-25-0624C	M-0624C	Sand Classifiers Rotary Airlock
71.	06-25-0624D	M-0624D	Sand Classifiers Rotary Airlock
72.	06-25-0624E	M-0624E	Sand Classifiers Rotary Airlock
73.	06-25-0632A	M-0632A	Cyclone Rejects Rotary Air Lock
74.	06-25-0632B	M-0632B	Cyclone Rejects Rotary Air Lock

<u>DWG. NO.</u>	<u>MOTOR NO.</u>	<u>NAME</u>
75. 06-25-0632C	M-0632C	Cyclone Rejects Rotary Air Lock
76. 06-25-0632D	M-0632D	Cyclone Rejects Rotary Air Lock
77. 07-25-0703	M-0703	Boiler Feed Water Pump
78. 07-25-0709A	M-0709A	Condensate Pump No. 1
79. 07-25-0709B	M-0709B	Condensate Pump No. 2
80. 07-25-0714A	M-0714A	Demineralizer Supply Pump
81. 07-25-0714B	M-0714B	Demineralizer Supply Pump
82. 07-25-0718A	M-0718A	Demineralizer Water Pump No. 1
83. 07-25-0718B	M-0718B	Demineralizer Water Pump No. 2
84. 07-25-0722A	M-0722A	Caustic Soda Feeder Pump
85. 07-25-0722B	M-0722B	Caustic Soda Feeder Pump
86. 07-25-0723A	M-0723A	Sulfuric Acid Feeder Pump
87. 07-25-0723B	M-0723B	Sulfuric Acid Feeder Pump
88. 09-25-0902A	M-0902A	Fuel Oil Pump No. 1
89. 09-25-0902B	M-0902B	Fuel Oil Pump No. 2
90. 10-25-1001A	M-1001A	Ash Sluice Pump No. 1
91. 10-25-1001B	M-1001B	Ash Sluice Pump No. 2
92. 10-25-1003A	M-1003A	Ash Sluice Pump
93. 10-25-1003B	M-1003B	Ash Sluice Pump
94. 10-25-1003C	M-1003C	Ash Sluice Pump

DESIGN REPORT

**DEPARTMENT
OF ENERGY**
**FUELS FROM BIOMASS
SYSTEMS BRANCH**

**ADVANCED SYSTEM
DEMONSTRATION FOR
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AS AN ENERGY SOURCE**

CONTRACT EG—77—R—06—1036

VOLUME V. ELECTRICAL AND INSTRUMENTATION
ELEMENTARY DIAGRAMS AND INSTRUMENT INDEXES

MAY, 1979
REVISED—OCTOBER, 1980

**Wheelabrator
Cleanfuel Corporation**

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DOE/ET/20055--T2(1615)

MASTER

ELEMENTARY
DIAGRAMS

STARTER CONNECTION DIAGRAM (THIS MOTOR)

M1 TO PLG-2
PROG. CONTROLLER

TYPICAL FOR THE FOLLOWING MOTORS

MO201	MO212A	MO215A	MO230	MO238B	MO249A
MO202	B	MO215B	MO234A	C	MO249B
MO203	C	MO217	B	D	MO309
MO204	D	MO218	C	MO240A	
MO205	E	MO219	D	B	
MO206A	F	MO221A	MO235	C	
MO206B	MO214A	MO221B	MO236	D	
MO207	B	MO222A	MO237A	MO243	
MO208	C	MO222B	B	MO247A	
MO209	D	MO227	C	B	
MO210	E	MO228	D	C	
MO211	F	MO229	MO238A	MO247D	

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
ADVANCED SYSTEM DEMONSTRATION FOR
UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

INTERLOCKS FROM OTHER EQUIP.

a - PLC-2-AB-PROG. CONTROLLER

b -

c -

CONTROL DEVICE LOCATION

△ - AT OR NEAR MOTOR

□ - ON STARTER DOOR

○ - ON PANEL WOODYARD

◇ -

EXTRA INTERLOCKS ON
THIS STARTER.

M1 -

M2 -

MOTOR NO. - SEE TABLE ABOVE
NAME - 480V. MOTORS

MCC NO. - MC-0251 COMPT. NO. -
MC-0252 SPEED - 1800
MC-0253

SCALE	NONE	DATE	
DESIGN BY:			
DRAWN BY:	R. Scarborough	2-13-79	
CHECKED BY:			
SUPV. BY:			
SUBM'TD BY:			
APP'D BY:			
APP'D BY:			
APP'D BY:			

The Rust Engineering Company
A Subsidiary of Wheelabrator-Frye Inc.

CONTRACT 21-1899
BIRMINGHAM ALABAMA

DRAWING NUMBER

02-25-001

REV. NO.

0

LOW VOLT MCC

HI VOLT COMP.

MCC GND BUS

CONTROL DEVICE LOCATION

- - ON STARTER DOOR
- - ON PANEL
- ◇ - PROG. CONTROLLER

U.S. DEPARTMENT OF ENERGY CONTRACT EG-77-C-06-1036

ADVANCED SYSTEM DEMONSTRATION FOR
UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

MOTOR NO. M-0223
NAME HOG-SWING HAMMER TYPE
MCC NO. MC0250 COMPT. NO. 2A
HP. 350 SPEED 1200

SCALE	DATE
DESIGN BY:	
DRAWN BY: <u>R. Scarborough</u>	<u>2-14-79</u>
CHECKED BY:	
SUPV. BY:	
SUBMIT'D BY:	
APP'D BY:	
APP'D BY:	
APP'D BY:	

The Rust Engineering Company
A Subsidiary of Wheelabrator-Frye Inc.
CONTRACT 21-1899
BIRMINGHAM ALABAMA

DRAWING NUMBER 02-25-0223 REV NO. 0

NO.	REVISIONS	MADE	CHKD	DATE

LOW VOLT MCC

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036

ADVANCED SYSTEM DEMONSTRATION FOR UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

MOTOR NO. M-0224A
NAME HOG-SWING HAMMERTYPE (STAND-BY)
MCC NO. MC-0250 COMPT. NO. 2B
HP. 350 SPEED 1200

SCALE	2	DATE
DESIGN BY:		
DRAWN BY:	R. Schlorer	2-14-7
CHECKED BY:		
SUPV. BY:		
SUBMITTED BY:		
APP'D BY:		
APP'D BY:		
APP'D BY:		

HI. VOLT COMP.

CONTROL DEVICE LOCATION
☐ -ON STARTER DOOR
☐ -ON PANEL
☐ -PROG.CONTROLLER

NO.	REVISIONS	MADE	CKD	DATE

LOW VOLT MCC

HI VOLT COMP

MCC GND BUS

CONTROL DEVICE LOCATION

- - ON STARTER DOOR
- - ON PANEL
- ◇ - PROG. CONTROLLER

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036

ADVANCED SYSTEM DEMONSTRATION FOR
UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

MOTOR NO. M-0224B
NAME HOG-SWING HAMMER TYPE
MCC NO. MC-0250 COMPT. NO. 2C
HP. 350 SPEED 1200

SCALE	DATE
DESIGN BY:	
DRAWN BY: <u>R. Scarborough</u>	<u>2-14-79</u>
CHECKED BY:	
SUPV. BY:	
SUBM'TD BY:	
APP'D BY:	
APP'D BY:	
APP'D BY:	

The Rust Engineering Company
A Subsidiary of Wheelabrator-Frye Inc.
CONTRACT 21-1899
BIRMINGHAM ALABAMA

DRAWING NUMBER
02-25-0224B

REV. NO.
0

NO.	REVISIONS	MADE	CKD	DATE

INTERLOCKS FROM OTHER EQUIP.

a —
b —
c —

CONTROL DEVICE LOCATION

△ — AT OR NEAR MOTOR
□ — ON STARTER DOOR
○ — ON PANEL
◇ —

EXTRA INTERLOCKS ON THIS STARTER.

M1 —
M2 —

MOTOR NO. — M-0260
NAME — EF-1 FAN

MCC NO. —
H.P. — 3

COMPT. NO. —
SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036

ADVANCED SYSTEM DEMONSTRATION FOR
UTILIZATION OF BIODIESEL AS AN ENERGY SOURCE

SCALE NONE

DATE

DESIGN BY:

DRAWN BY: J. HALE

5-7-79

CHECKED BY:

SUPV. BY:

SUBM'TD BY:

APP'D BY:

APP'D BY:

APP'D BY:

The Rust Engineering Company
A Subsidiary of Wheelabrator-Frye Inc.

CONTRACT 21-1899
BIRMINGHAM ALABAMA

DRAWING
NUMBER

02-25-0260

REV. NO.

0

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

a —
b —
c —

CONTROL DEVICE LOCATION

△ — AT OR NEAR MOTOR
□ — ON STARTER DOOR
○ — ON PANEL
◇ —

EXTRA INTERLOCKS ON THIS STARTER.

M1 —
M2 —

MOTOR NO. — M-0261A
NAME — EF-2 FAN

MCC NO. — COMPT. NO. —
H.P. — 7½ SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
ADVANCED SYSTEM DEMONSTRATION FOR
UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 ALABAMA
DESIGN BY:		
DRAWN BY: J. HALE	5-7-79	
CHECKED BY:		
SUPV. BY:		
SUBM'TD BY:		DRAWING NUMBER
APP'D BY:		02-25-0261A
APP'D BY:		REV. NO.
APP'D BY:		0

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a —
- b —
- c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 —
- M2 —

MOTOR NO. — M-0261B
 NAME — EF-2 FAN
 MCC NO. —
 H.P. — 7 1/2
 COMPT. NO. —
 SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
 ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA	DRAWING NUMBER 02-25-0261B REV. NO. 0
DESIGN BY:			
DRAWN BY: J. HALE	5-7-79		
CHECKED BY:			
SUPV. BY:			
SUBM'TD BY:			
APP'D BY:			
APP'D BY:			
APP'D BY:

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a —
- b —
- c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 —
- M2 —

MOTOR NO. — M-0262A
 NAME — EF-4 FAN
 MCC NO. —
 H.P. — 5

COMPT. NO. —
 SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
 ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 ALABAMA DRAWING NUMBER 02-25-0262A REV. NO. 0
DESIGN BY:		
DRAWN BY: J. HALE	5-7-79	
CHECKED BY:		
SUPV. BY:		
SUBM'TD BY:		
APP'D BY:		
APP'D BY:		
APP'D BY:

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a —
- b —
- c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 —
- M2 —

MOTOR NO. — M-0262B
 NAME — EF-4-FAN
 MCC NO. —
 H.P. — 5

COMPT. NO. —
 SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
 ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE: NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 ALABAMA BIRMINGHAM DRAWING NUMBER 02-25-0262B REV. NO. 0
DESIGN BY:		
DRAWN BY: J. HALE	5-7-79	
CHECKED BY:		
SUPV. BY:		
SUBM'TD BY:		
APP'D BY:		
APP'D BY:		
APP'D BY:

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a —
- b —
- c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 —
- M2 —

MOTOR NO. — M-0263A
 NAME — EF-5-FAN
 MCC NO. —
 H.P. — 1½
 COMPT. NO. —
 SPEED — 1800

SCALE	NONE	DATE	
DESIGN BY:			
DRAWN BY:	J. HALE	5-7-79	
CHECKED BY:			
SUPV. BY:			
SUBM'TD BY:			
APP'D BY:			
APP'D BY:			
APP'D BY:			

U.S. DEPARTMENT OF ENERGY
 CONTRACT EG-77-C-06-1036

ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

The Rust Engineering Company
 A Subsidiary of Wheelabrator-Frye Inc.

CONTRACT 21-1899
 BIRMINGHAM ALABAMA

DRAWING NUMBER 02-25-C263A
 REV. NO. 0

INTERLOCKS FROM OTHER EQUIP.

- a —
- b —
- c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 —
- M2 —

MOTOR NO. — M-0263B
 NAME — EF-5-FAN
 MCC NO. —
 H.P. — 1 1/2
 COMPT. NO. —
 SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
 ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE
DESIGN BY:	
DRAWN BY: J. HALE	5-7-79
CHECKED BY:	
SUPV. BY:	
SUBM'TD BY:	
APP'D BY:	
APP'D BY:	
APP'D BY:

The Rust Engineering Company
 A Subsidiary of Wheelabrator-Frye Inc.

CONTRACT 21-1899 ALABAMA

DRAWING NUMBER 02-25-0263B

REV. NO. 0

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a —
- b —
- c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 —
- M2 —

MOTOR NO. — M-0264
 NAME — AH-2-AIR HAND
 MCC NO. — COMP'T. NO. —
 H.P. — 2 SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
 ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE: NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA	REV. NO. 0
DESIGN BY:			
DRAWN BY: J. HALE	5-7-79		
CHECKED BY:			
SUPV. BY:			
SUBM'TD BY:		DRAWING NUMBER	
APP'D BY:		02-25-0264	
APP'D BY:			
APP'D BY:			

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

a —
b —
c —

CONTROL DEVICE LOCATION

△ — AT OR NEAR MOTOR
□ — ON STARTER DOOR
○ — ON PANEL
◇ —

EXTRA INTERLOCKS ON THIS STARTER.

M1 —
M2 —

MOTOR NO. — M-0265
NAME — AH-3 AIR HAND
MCC NO. —
H.P. — 2
COMPT. NO. —
SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036

ADVANCED SYSTEM DEMONSTRATION FOR
UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE
DESIGN BY:	
DRAWN BY: J. HALE	5-7-79
CHECKED BY:	
SUPV. BY:	
SUBM'TD BY:	
APP'D BY:	
APP'D BY:	
APP'D BY:	

The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc.	
CONTRACT 21-1899	ALABAMA
DRAWING NUMBER 02-25-0265	REV. NO. 0

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a —
- b —
- c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER

- M1 —
- M2 —

MOTOR NO. — M-0266
 NAME — AH-4 AIR HAND
 MCC NO. — COMPT. NO. —
 H.P. — 2 SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036

ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE		DATE	
DESIGN BY:			
DRAWN BY: J. HALE		5-7-79	
CHECKED BY:			
SUPV. BY:			
SUBM'TD BY:			
APP'D BY:			
APP'D BY:			
APP'D BY:			

The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc.		CONTRACT BIRMINGHAM 21-1899 ALABAMA
DRAWING NUMBER 02-25-0266		REV. NO. 0

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a — MORPHOLINE AGIT. (M-0303)
b — LOW LEVEL SW. (LSL-3802)
c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
□ — ON STARTER DOOR
○ — ON PANEL
◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 —
M2 —

MOTOR NO. — M-0302A

NAME — MORPHOLINE PUMP

MCC NO. —

H.P. — 1/2

COMP'T. NO. —

SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036

ADVANCED SYSTEM DEMONSTRATION FOR
UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE: NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1855 BIRMINGHAM ALABAMA
DESIGN BY:		
DRAWN BY: <i>Scarborough</i>	4-4-79	
CHECKED BY:		
SUPV. BY:		
SUBM'TD BY:		DRAWING NUMBER
APP'D BY:		03-25-0302A
APP'D BY:		REV. NO. 0

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a — MORPHOLINE AGIT. (M-0303)
b — LOW LEVEL SW. (LSL-3802)
c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
□ — ON STARTER DOOR
○ — ON PANEL
◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 —
M2 —

MOTOR NO. — M-0302B
NAME — MORPHOLINE PUMP
MCC NO. —
H.P. — 1/2
COMP'T. NO. —
SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
ADVANCED SYSTEM DEMONSTRATION FOR
UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT BIRMINGHAM ALABAMA DRAWING NUMBER 03-25-0302B REV. NO. 0
DESIGN BY:		
DRAWN BY: <i>Sanborn</i>	4-4-79	
CHECKED BY:		
SUPV. BY:		
SUBM'TD BY:		
APP'D BY:		
APP'D BY:		
APP'D BY:

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a —
- b —
- c —

CONTROL DEVICE LOCATION

- Δ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

M1 — MORPHOLINE PUMP (M-0302A)
M2 — MORPHOLINE PUMP (M-0302B)

MOTOR NO. — M-0303
NAME — MORPHOLINE TANK AGIT
MCC. NO. —
H.P. — 1/2
COMPT. NO. —
SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-08-1036
 ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE: NONE		DATE	
DESIGN BY:			
DRAWN BY: <i>Scrubbs</i>		4-4-79	
CHECKED BY:			
SUPV. BY:			
SUBM'TD BY:			
APP'D BY:			
APP'D BY:			
APP'D BY:			
The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA		DRAWING NUMBER 03-25-0303 REV. NO. 0

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a — PHOSPHATE AGIT. (M-0306)
b — LEVEL SW. (LSL-3806)
c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
□ — ON STARTER DOOR
○ — ON PANEL
◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 —
M2 —

MOTOR NO. — M-0305A
NAME — PHOSPHATE PUMP

MCC NO. — COMPT. NO. —
H.P. — 1/2 SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
ADVANCED SYSTEM DEMONSTRATION FOR
UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA	DRAWING NUMBER 03-25-0305A	REV. NO. 0
DESIGN BY:				
DRAWN BY: <i>Scarborough</i>	4-4-79			
CHECKED BY:				
SUPV. BY:				
SUBM'TD BY:				
APP'D BY:				
APP'D BY:				
APP'D BY:

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a — PHOSPHATE AGIT. (M-0306)
b — LEVEL SW. (LSL-3806)
c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
□ — ON STARTER DOOR
○ — ON PANEL
◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 —
M2 —

MOTOR NO. — M-0305B
NAME — PHOSPHATE PUMP
MCC NO. —
H.P. — 1/2
COMPT. NO. —
SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
ADVANCED SYSTEM DEMONSTRATION FOR
UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA	REV. NO. 0
DESIGN BY:			
DRAWN BY: Scarborough	4-4-79		
CHECKED BY:			
SUPV. BY:			
SUBM'TD BY:		DRAWING NUMBER	
APP'D BY:		03-25-0305B	0
APP'D BY:

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

a —
b —
c —

CONTROL DEVICE LOCATION

△ — AT OR NEAR MOTOR
□ — ON STARTER DOOR
○ — ON PANEL
◇ —

EXTRA INTERLOCKS ON THIS STARTER.

M1 — PHOSPHATE PUMP (M-0305A)
M2 — PHOSPHATE PUMP (M-0305B)

MOTOR NO. — M-0306
NAME — PHOSPHATE TANK AGIT

MCC NO. —
H.P. — 1/2

COMP'T. NO. —
SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
ADVANCED SYSTEM DEMONSTRATION FOR
UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA	REV. NO. 0
DESIGN BY:			
DRAWN BY: Scarborough	4-4-79		
CHECKED BY:			
SUPV. BY:			
SUBM'TD BY:		DRAWING NUMBER	
APP'D BY:		03-25-0306	
APP'D BY:

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a —
- b —
- c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

M1 — HYDRAZINE PUMP (M-0308A)
M2 — HYDRAZINE PUMP (M-0308B)

MOTOR NO. — M-0307
NAME — HYDRAZINE TANK AGIT.
MCC NO. —
H.P. — 1/2
COMP'T. NO. —
SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
ADVANCED SYSTEM DEMONSTRATION FOR
UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA
DESIGN BY:		
DRAWN BY: Scarborough	4-4-79	
CHECKED BY:		
SUPV. BY:		
SUBM'TD BY:		DRAWING NUMBER
APP'D BY:		03-25-0307
APP'D BY:		REV. NO.
		0

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a - HYDRAZINE TK. AGIT. (M-0307)
b - LEVEL SW. (LSL-3810)
c -

CONTROL DEVICE LOCATION

- Δ - AT OR NEAR MOTOR
□ - ON STARTER DOOR
○ - ON PANEL
◇ -

EXTRA INTERLOCKS ON THIS STARTER.

M1 -
M2 -

MOTOR NO. - M-0308A
NAME - HYDRAZINE PUMP NO. 1
MCC NO. -
H.P. - 1/2
COMP'T. NO. -
SPEED - 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
ADVANCED SYSTEM DEMONSTRATION FOR
UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE: NONE	DATE:	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA
DESIGN BY:		
DRAWN BY: Scarborough	4-4-79	
CHECKED BY:		
SUPV. BY:		
SUBMIT'D BY:		
APP'D BY:		DRAWING NUMBER
APP'D BY:		03-25-0308A
APP'D BY:		REV. NO.
		0

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a — HYDRAZINE TK. AGIT. (M-0307)
b — LEVEL SW. (LSL-3810)
c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
□ — ON STARTER DOOR
○ — ON PANEL
◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 —
M2 —

MOTOR NO. — M-0308B
NAME — HYDRAZINE PUMP NO. 2
MCC NO. — COMPT. NO. —
H.P. — 1/2 SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036

ADVANCED SYSTEM DEMONSTRATION FOR
UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA
DESIGN BY:		
DRAWN BY: Scarborough	4-4-79	
CHECKED BY:		
SUPV. BY:		
SUBM'TD BY:		DRAWING NUMBER 03-25-0308B
APP'D BY:		
APP'D BY:		
APP'D BY:		REV. NO. 0

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a - CONV. (M-0311)
- b - ZERO SPEED SW. (SSL-2403)
- c - LEVEL SW. (LSH-2420)

CONTROL DEVICE LOCATION

- △ - AT OR NEAR MOTOR
- - ON STARTER DOOR
- - ON PANEL BOILER
- ◇ -

EXTRA INTERLOCKS ON THIS STARTER.

- M1 -
- M2 - CONV. (M-0309)

MOTOR NO. - M-0310
 NAME - BARK BUCKET ELEV.
 MCC NO. -
 H.P. - 30
 COMPT. NO. -
 SPEED - 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
 ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE: NONE	DATE	 The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA	DRAWING NUMBER 03-25-0310 REV. NO. 0
DESIGN BY:			
DRAWN BY: <i>Scarborough</i>	4-5-79		
CHECKED BY:			
SUPV. BY:			
SUBM'TD BY:			
APP'D BY:			
APP'D BY:			

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a - FLIGHT CONV. (M-0312)
- b - SPEED SW. (SSL-2402)
- c - LEVEL SW. (LSH-2405)

CONTROL DEVICE LOCATION

- △ - AT OR NEAR MOTOR
- - ON STARTER DOOR
- - ON PANEL BOILER
- ◇ -

EXTRA INTERLOCKS ON THIS STARTER.

- M1 - FLIGHT CONV. (M-0236)
- M2 - BUCKET ELEV. (M-0310)

MOTOR NO. - M-0311

NAME - CONVEYOR TO BARK DISTRIBUTOR

MCC NO. -

COMPT. NO. -

H.P. - 7 1/2

SPEED - 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036

ADVANCED SYSTEM DEMONSTRATION FOR
UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE: NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA	DRAWING NUMBER 03-25-0311 REV. NO. 0
DESIGN BY:			
DRAWN BY: <i>Scurberough</i>	4-5-79		
CHECKED BY:			
SUPV. BY:			
SUBM'TD BY:			
APP'D BY:			
APP'D BY:			
APP'D BY:			

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a - BUCKET ELEV. (M-0331)
- b - SPEED SW. (SSL-2404)
- c - LEVEL SW. (LSH-2412)

CONTROL DEVICE LOCATION

- Δ - AT OR NEAR MOTOR
- - ON STARTER DOOR
- - ON PANEL BOILER
- ◇ -

EXTRA INTERLOCKS ON THIS STARTER.

- M1 -
- M2 - BARK CONV. (M-0311)

MOTOR NO. - M-0312
 NAME - BARK FLIGHT DISTRIBUTOR CONVEYOR
 MCC NO. -
 H.P. - 20
 COMP'T. NO. -
 SPEED - 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
 ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA
DESIGN BY:		
DRAWN BY: Scarborough	4-5-79	
CHECKED BY:		
SUPV. BY:		
SUBM'TD BY:		DRAWING NUMBER
APP'D BY:		03-25-0312
APP'D BY:		REV. NO. 0

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a —
- b —
- c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL BOILER
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 —
- M2 —

MOTOR NO. — M-0313A
 NAME — SCREW FEEDER NO. 1
 MCC NO. — COMPT. NO. —
 H.P. — 20 SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036

ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF COINTEGRATED AS AN ENERGY SOURCE

SCALE NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA
DESIGN BY:		
DRAWN BY: <i>Scarborough</i>	4-5-79	
CHECKED BY:		
SUPV. BY:		
SUBM'TD BY:		DRAWING NUMBER
APP'D BY:		03-25-0313A
APP'D BY:		REV. NO. 0

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a —
- b —
- c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL BOILER
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 —
- M2 —

MOTOR NO. — M-0
 NAME — SCREW FEEDER NO. 2
 MCC NO. — COMPT. NO. —
 H.P. — 20 SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036

ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE
DESIGN BY:	
DRAWN BY: <i>Sutcliffe</i>	4-5-79
CHECKED BY:	
SUPV. BY:	
SUBM'TD BY:	
APP'D BY:	
APP'D BY:	
APP'D BY:	

The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1879 BIRMINGHAM ALABAMA	
DRAWING NUMBER	REV. NO.
03-25-0313B	0

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a —
- b —
- c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL BOILER
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 —
- M2 —

MOTOR NO. — M-0313C
 NAME — SCREW FEEDER NO. 3
 MCC NO. — COMPT. NO. —
 H.P. — 20 SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036

ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA	
DESIGN BY:			
DRAWN BY: <i>Scarbrough</i>	4-5-79		
CHECKED BY:			
SUPV. BY:			
SUBMIT'D BY:		DRAWING NUMBER	
APP'D BY:			
APP'D BY:			
APP'D BY:		03-25-0313C	REV. NO. 0

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a —
- b —
- c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL BOILER
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 —
- M2 —

MOTOR NO. — M-0313D
 NAME — SCREW FEEDER NO. 4
 MCC NO. — COMP'T. NO. —
 H.P. — 20 SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
 ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA	DRAWING NUMBER 03-25-0313D	REV. NO. 0
DESIGN BY:				
DRAWN BY: <i>Scarbrough</i>	4-5-79			
CHECKED BY:				
SUPV. BY:				
SUBM'TD BY:				
APP'D BY:				
APP'D BY:				
APP'D BY:

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

a —
b —
c —

CONTROL DEVICE LOCATION

△ — AT OR NEAR MOTOR
□ — ON STARTER DOOR
○ — ON PANEL BOILER
◇ —

EXTRA INTERLOCKS ON THIS STARTER.

M1 —
M2 —

MOTOR NO. — M-0313E
NAME — SCREW FEEDER NO. 5
MCC NO. — COMPT. NO. —
H.P. — 20 SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036

ADVANCED SYSTEM DEMONSTRATION FOR
UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE: NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1879 BIRMINGHAM ALABAMA	DRAWING NUMBER 03-25-0313E REV. NO. 0
DESIGN BY:			
DRAWN BY: <i>Sanborn</i>	4-5-79		
CHECKED BY:			
SUPV. BY:			
SUBM'TD BY:			
APP'D BY:			
APP'D BY:			
APP'D BY:

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a. —
- b. —
- c. —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL BOILER
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 —
- M2 —

MOTOR NO. — M-0313F
 NAME — SCREW FEEDER NO. 6
 MCC NO. — COMPT. NO. —
 H.P. — 20 SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
 ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA
DESIGN BY:		
DRAWN BY: Scarborough	4-5-79	
CHECKED BY:		
SUPV. BY:		
SUBM'TD BY:		
APP'D BY:		DRAWING NUMBER 03-25-0313F
APP'D BY:		
APP'D BY:		
		REV. NO. 0

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a - LEVEL SW. (LSH-2223)
b - SPEED SW. (SSL-2413)
c -

CONTROL DEVICE LOCATION

- Δ - AT OR NEAR MOTOR
□ - ON STARTER DOOR
○ - ON PANEL BOILER
◇ -

EXTRA INTERLOCKS ON THIS STARTER.

- M1 -
M2 -

MOTOR NO. - M-0314

NAME - CONV. BARK RETURN TO SURGE BIN

MCC NO. - COMP'T. NO. -
H.P. - 7 1/2 SPEED - 1800

SCALE NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA
DESIGN BY:		
DRAWN BY Scarborough	4-5-79	
CHECKED BY:		
SUPV. BY:		
SUBM'TD BY:		DRAWING NUMBER
APP'D BY:		03-25-0314
APP'D BY:		REV. NO.
		0

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
 ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

MOTOR NO. M-0320
 NAME F.D. FAN
 MCC NO. _____ COMPT. NO. _____
 HP. 700 SPEED 1200

CONTROL DEVICE LOCATION

- △ - AT OR NEAR MOTOR
- - ON STARTER DOOR
- - ON PANEL BOILER

NO.	REVISIONS	MADE	CKD	DATE

SCALE	NONE	DATE	
DESIGN BY:			
BROWN BY:	<i>Scarborough</i>	4-6-79	
CHECKED BY:			
SUPV. BY:			
SUBM'TD BY:			
APP'D BY:			
APP'D BY:			
APP'D BY:			

The Rust Engineering Company
 A Subsidiary of Wheelabrator-Frye Inc.
 CONTRACT 21-1899

BIRMINGHAM ALABAMA

DRAWING NUMBER
03-25-0320

REV. NO.
0

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a — FSSS
b — F.D. FAN (M-0320)
c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
□ — ON STARTER DOOR
○ — ON PANEL BOILER
◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 — ALARM
M2 — FURNACE SUPRV. SYSTEM
M3 — OIL BURNERS AUTO. SYS.

MOTOR NO. — M-0323
NAME — DISTRIBUTOR AIR FAN
MCC NO. —
H.P. — 100
COMPT. NO. —
SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
ADVANCED SYSTEM DEMONSTRATION FOR
UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA
DESIGN BY:		
DRAWN BY: <i>Scubering</i>	4-5-79	
CHECKED BY:		
SUPV. BY:		
SUBMIT'D BY:		
APP'D BY:		DRAWING NUMBER
APP'D BY:		03-25-0323
APP'D BY:		REV. NO. 0

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a - CONV. TO SURGE BIN (M-0314)
- b - ZERO SPEED SW. (SSL-2427)
- c -

CONTROL DEVICE LOCATION

- Δ - AT OR NEAR MOTOR
- - ON STARTER DOOR
- - ON PANEL BOILER
- ◇ -

EXTRA INTERLOCKS ON THIS STARTER.

- M1 -
- M2 - BARK CONV. (M-0312)

MOTOR NO. - M-0331
 NAME - BUCKET ELEV.
 MCC NO. -
 H.P. - 25
 COMPT. NO. -
 SPEED - 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
 ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE		DATE	
DESIGN BY:			
DRAWN BY: Scarborough		4-6-79	
CHECKED BY:			
SUPV. BY:			
SUBM'TD BY:			
APP'D BY:			
APP'D BY:			
APP'D BY:			
The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899		BIRMINGHAM ALABAMA	
DRAWING NUMBER 03-25-0331		REV. NO. 0

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

a —
b —
c —

CONTROL DEVICE LOCATION

△ — AT OR NEAR MOTOR
□ — ON STARTER DOOR
○ — ON PANEL
◇ —

EXTRA INTERLOCKS ON THIS STARTER.

M1 —
M2 —

MOTOR NO. — M-0337A
NAME — STOKER #1

MCC NO. — COMPT. NO. —
H.P. — 7 1/2 SPEED —

U.S. DEPARTMENT OF ENERGY CONTRACT EG-77-C-06-1036

ADVANCED SYSTEM DEMONSTRATION FOR
UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE: NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 ALABAMA DRAWING NUMBER 03-25-0337A REV. NO. 0
DESIGN BY:		
DRAWN BY: J. HALE	5/8/79	
CHECKED BY:		
SUPV. BY:		
SUBM'TD BY:		
APP'D BY:		
APP'D BY:		
APP'D BY:

STARTER CONNECTION DIAGRAM (THIS MOTOR)

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
 ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

INTERLOCKS FROM OTHER EQUIP.

a —
 b —
 c —

CONTROL DEVICE LOCATION

△ — AT OR NEAR MOTOR
 □ — ON STARTER DOOR
 ○ — ON PANEL
 ◇ —

EXTRA INTERLOCKS ON
 THIS STARTER.

M1 —
 M2 —

MOTOR NO. — M-0337B
 NAME — STOKER #2

MCC NO. —
 H.P. — 7½
 COMPT. NO. —
 SPEED —

SCALE, NONE	DATE
DESIGN BY:	
DRAWN BY: J. HALE	5/8/79
CHECKED BY:	
SUPV. BY:	
SUBM'TD BY:	
APP'D BY:	
APP'D BY:	
APP'D BY:	

The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc.	
CONTRACT	21-1899
BIRMINGHAM	ALABAMA
DRAWING NUMBER	03-25-0337B
REV. NO.

STARTER CONNECTION DIAGRAM (THIS MOTOR)

TYPICAL FOR FOLLOWING		
M-0345A	M-0345D	M-0345G
M-0345B	M-0345E	M-0345H
M-0345C	M-0345F	M-0345J

INTERLOCKS FROM OTHER EQUIP.

- a —
- b —
- c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 —
- M2 —

MOTOR NO. — M-0345
 NAME — HEATING UNIT HU-1
 MCC NO. —
 H.P. — 7½
 COMPT. NO. —
 SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
 ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1849 BIRMINGHAM ALABAMA
DESIGN BY:		
DRAWN BY: L. PEDRON	4-11-79	
CHECKED BY:		
SUPV. BY:		
SUBM'TD BY:		
APP'D BY:		DRAWING NUMBER 03-25-0345
APP'D BY:		
APP'D BY:		
APP'D BY:		
		REV. NO. 0

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a —
- b —
- c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 —
- M2 —

MOTOR NO. — M-0346
 NAME — FAN EF-1
 MCC NO. —
 H.P. — 3/4

COMP'T. NO. —
 SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-08-1036

ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA
DESIGN BY:		
DRAWN BY: L. PEDRON	4-12-79	
CHECKED BY:		
SUPV. BY:		
SUBM'TD BY:		
APP'D BY:		DRAWING NUMBER
APP'D BY:		03-25-0346
APP'D BY:		REV. NO. 0

STARTER CONNECTION DIAGRAM (THIS MOTOR)

TYPICAL FOR THE FOLLOWING	
M-0347A	M-0347L
M-0347B	M-0347M
M-0347C	M-0347N
M-0347D	M-0347P
M-0347E	M-0347R
M-0347F	M-0347S
M-0347G	M-0347T
M-0347H	M-0347U
M-0347J	M-0347V
M-0347K	M-0347W

INTERLOCKS FROM OTHER EQUIP.

- a —
- b —
- c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 —
- M2 —

MOTOR NO. — M-0347
 NAME — FAN EF-3
 MCC NO. — COMP'T. NO. —
 H.P. — 5 SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036

ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA DRAWING NUMBER 03-25-0347 REV. NO. 0
DESIGN BY:		
DRAWN BY: L. PEDRON	4-12-79	
CHECKED BY:		
SUPV. BY:		
SUBM'TD BY:		
APP'D BY:		
APP'D BY:		
APP'D BY:

INTERLOCKS FROM OTHER EQUIP.

- a —
- b —
- c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 —
- M2 —

MOTOR NO. — M-0351
 NAME — AIR HANDLING UNIT AH-1
 MCC NO. — COMPT. NO. —
 H.P. — 15 SPEED — 1800

U.S. DEPARTMENT OF ENERGY CONTRACT EG-77-C-06-1036

ADVANCES SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA	DRAWING NUMBER 03-25-0351 REV. NO. 0
DESIGN BY:			
DRAWN BY: L. PEDRON	4-10-79		
CHECKED BY:			
SUPV. BY:			
SUBM'TD BY:			
APP'D BY:			
APP'D BY:			
APP'D BY:

INTERLOCKS FROM OTHER EQUIP.

a —
b —
c —

CONTROL DEVICE LOCATION

△ — AT OR NEAR MOTOR
□ — ON STARTER DOOR
○ — ON PANEL
◇ —

EXTRA INTERLOCKS ON THIS STARTER.

M1 —
M2 —

MOTOR NO. — M-0352

NAME — AIR HANDLING UNIT AH-2

MCC NO. —

H.P. — 3/4

COMPT. NO. —

SPEED — 1800

U.S. DEPARTMENT OF ENERGY CONTRACT EG-77-C-06-1036

ADVANCED SYSTEM DEMONSTRATION FOR
UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE: NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-H-99 BIRMINGHAM ALABAMA	REV. NO. 0
DESIGN BY:			
DRAWN BY: L. PEDRON	4-11-77		
CHECKED BY:			
SUPV. BY:			
SUBM'TD BY:		DRAWING NUMBER	
APP'D BY:		03-25-0352	
APP'D BY:

STARTER CONNECTION DIAGRAM (THIS MOTOR)

**U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036**

ADVANCED SYSTEM DEMONSTRATION FOR
UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

INTERLOCKS FROM OTHER EQUIP.

- a —
- b —
- c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL
- ◇ —

EXTRA INTERLOCKS ON
THIS STARTER.

- M1 —
- M2 —

MOTOR NO. — M-0354
NAME — AIR HANDLING UNIT AH-4
MCC NO. —
H.P. — 1 1/2
COMP'T. NO. —
SPEED — 1800

SCALE: NONE	DATE
DESIGN BY:	
DRAWN BY: L. PEDRON	4-11-79
CHECKED BY:	
SUPV. BY:	
SUBM'TD BY:	
APP'D BY:	
APP'D BY:	
APP'D BY:

The Rust Engineering Company
A Subsidiary of Wheelabrator-Frye Inc.

CONTRACT 21-1849

BIRMINGHAM ALABAMA

DRAWING NUMBER 03-25-0354

REV. NO. 0

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

a —
b —
c —

CONTROL DEVICE LOCATION

△ — AT OR NEAR MOTOR
□ — ON STARTER DOOR
○ — ON PANEL BOILER
◇ —

EXTRA INTERLOCKS ON THIS STARTER.

M1 —
M2 — ALARM (QA-2843)

MOTOR NO. — M-0403A
NAME — CONDENSER HOT WELL PUMP NO. 1
MCC NO. — COMP.T. NO. —
H.P. — 20 SPEED — 3600

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
ADVANCED SYSTEM DEMONSTRATION FOR
UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE
DESIGN BY:	
DRAWN BY: Scarborough	4-6-79
CHECKED BY:	
SUPV. BY:	
SUBM'TD BY:	
APP'D BY:	
APP'D BY:	
APP'D BY:	

The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899	
BIRMINGHAM	ALABAMA
DRAWING NUMBER	REV. NO.
04-25-0403A	0

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a —
- b —
- c —

CONTROL DEVICE LOCATION

- Δ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL BOILER
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 —
- M2 — ALARM (QA-2844)

MOTOR NO. — M-0403B
NAME — CONDENSER HOT WELL PUMP NO. 2
MCC NO. — COMPT. NO. —
H.P. — 20 SPEED — 3600

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
ADVANCED SYSTEM DEMONSTRATION FOR
UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA	REV. NO. 0
DESIGN BY:			
DRAWN BY: <i>Scubrough</i>	4-6-79		
CHECKED BY:			
SUPV. BY:			
SUBM'TO BY:		DRAWING NUMBER 04-25-0403B	
APP'D BY:			
APP'D BY:

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
 ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

INTERLOCKS FROM OTHER EQUIP.

a —
 b —
 c —

CONTROL DEVICE LOCATION

△ — AT OR NEAR MOTOR
 □ — ON STARTER DOOR
 ○ — ON PANEL BOILER
 ◇ —

EXTRA INTERLOCKS ON
THIS STARTER.

M1 —
 M2 — ALARM (QA-2865)

MOTOR NO. — M-0403C
 NAME — CONDENSER HOT WELL
 PUMP NO. 3
 MCC NO. — COMPT. NO. —
 H.P. — 20 SPEED — 3600

SCALE NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA	DRAWING NUMBER 04-25-0403C REV. NO. 0
DESIGN BY:			
DRAWN BY: Scarborough	4-6-79		
CHECKED BY:			
SUPV. BY:			
SUBM'TD BY:			
APP'D BY:			
APP'D BY:			
APP'D BY:

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a —
- b —
- c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 —
- M2 —

MOTOR NO. — M-0501A
 NAME — COOLING TOWER FAN
 MCC NO. — COMPT. NO. —
 H.P. — 125 SPEED —

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
 ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE
DESIGN BY:	
DRAWN BY: J. HALE	5/8/79
CHECKED BY:	
SUPV. BY:	
SUBM'TD BY:	
APP'D BY:	
APP'D BY:	
APP'D BY:	

The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA	
DRAWING NUMBER 05-25-0501A	REV. NO. 0

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

a —
b —
c —

CONTROL DEVICE LOCATION

△ — AT OR NEAR MOTOR
□ — ON STARTER DOOR
○ — ON PANEL
◇ —

EXTRA INTERLOCKS ON THIS STARTER.

M1 —
M2 —

MOTOR NO. — M-0501B
NAME — COOLING TOWER FAN
MCC NO. — COMPT. NO. —
H.P. — 125 SPEED —

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
ADVANCED SYSTEM DEMONSTRATION FOR
UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 ALABAMA BIRMINGHAM DRAWING NUMBER 05-25-0501B REV. NO. 0
DESIGN BY:		
DRAWN BY: J. HALE	5/8/79	
CHECKED BY:		
SUPV. BY:		
SUBMIT'D BY:		
APP'D BY:		
APP'D BY:		
APP'D BY:

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
 ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

MOTOR NO. M-0502A
 NAME COOLING TOWER PUMP
 MCC NO. _____ COMPT. NO. _____
 HP. 250 SPEED 1200

CONTROL DEVICE LOCATION

- △ - AT OR NEAR MOTOR
- - ON STARTER DOOR
- - ON PANEL BOILER

NO.	REVISIONS	M.S.D.	DATE

SCALE	NONE	DATE	
DESIGN BY:			
DRAWN BY:	<i>Scalora</i>	4-6-79	
CHECKED BY:			
SUPV. BY:			
SUBMIT'D BY:			
APP'D BY:			
APP'D BY:			
APP'D BY:

The Rust Engineering Company
 A Subsidiary of Wheelabrator Technologies

CONTRACT 21-1899

BIRMINGHAM ALABAMA

DRAWING NUMBER **05-25-0502A** REV. NO. **0**

480VOLT 3Ø
 T1
 T2
 T3

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
 ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

MOTOR NO. M-0502B
 NAME COOLING TOWER PUMP
 MCC NO. _____ COMPT. NO. _____
 HP. 250 SPEED 1200

CONTROL DEVICE LOCATION

△ - AT OR NEAR MOTOR
 □ - ON STARTER DOOR
 ○ - ON PANEL BOILER

NO.	REVISIONS	MADE	CKD	DATE

SCALE	NONE	DATE	
DESIGN BY:			
DRAWN BY:	Scarborough	4-6-79	
CHECKED BY:			
SUPV. BY:			
SUBM'TD BY:			
APP'D BY:			
APP'D BY:			
APP'D BY:			

The Rust Engineering Company
 A Subsidiary of Wheelabrator-Frye Inc.
 CONTRACT 21-1899

BIRMINGHAM ALABAMA

DRAWING NUMBER
05-25-0502B

REV NO.
0

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a —
- b —
- c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 —
- M2 —

MOTOR NO. — M-0506
 NAME — PHOSPHATE TK. AGIT.
 MCC NO. — COMPT. NO. —
 H.P. — 1/2 SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036

ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE: NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA	REV. NO. 0
DESIGN BY:			
DRAWN BY: <i>Scarborough</i>	4-6-79		
CHECKED BY:			
SUPV. BY:			
SUBM'TD BY:			
APP'D BY:		DRAWING NUMBER	
APP'D BY:		05-25-0506	
APP'D BY:

INTERLOCKS FROM OTHER EQUIP.
 a — LEVEL SW. (LSL-3901)
 b —
 c —

CONTROL DEVICE LOCATION
 Δ — AT OR NEAR MOTOR
 □ — ON STARTER DOOR
 ○ — ON PANEL
 ◇ —

M1 —
 M2 —

MOTOR NO. — M-0507
 NAME — PHOSPHATE METERING PUMP
 MCC NO. —
 H.P. — 1/2
 COMP'T. NO. —
 SPEED — 1800

U.S. DEPARTMENT OF ENERGY CONTRACT EG-77-C-06-1036

ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA	DRAWING NUMBER 05-25-0507 REV. NO. 0
DESIGN BY:			
DRAWN BY: <i>Scarbrough</i>	4-6-79		
CHECKED BY:			
SUPV. BY:			
SUBMIT'D BY:			
APP'D BY:			
APP'D BY:

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
 ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

HIGH PRESSURE SLUICE
 WATER VALVES

SCALE <i>2</i>	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 31-1899 BIRMINGHAM ALABAMA	
DESIGN BY:			
DRAWN BY: <i>P. Sankar</i>	4-17-79		
CHECKED BY:			
SUPV. BY:			
SUBMIT'D BY:			
APP'D BY:		DRAWING NUMBER	REV. NO.
APP'D BY:		06-25-002	0
APP'D BY:

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

a —
b —
c —

CONTROL DEVICE LOCATION

△ — AT OR NEAR MOTOR
□ — ON STARTER DOOR
○ — ON PANEL BOILER
◇ —

EXTRA INTERLOCKS ON THIS STARTER.

M1 —
M2 —

MOTOR NO. — M-0601A
NAME — PRI. COLLECTOR ROTARY AIRLOCK
MCC NO. — COMPT. NO. —
H.P. — 1 SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036

ADVANCED SYSTEM DEMONSTRATION FOR
UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE
DESIGN BY:	
DRAWN BY: <i>Scarbrough</i>	4-6-79
CHECKED BY:	
SUPV. BY:	
SUBM'TD BY:	
APP'D BY:	
APP'D BY:	
APP'D BY:	

The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA	
DRAWING NUMBER 06-25-0601A	REV. NO. 0

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a —
- b —
- c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL BOILER
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 —
- M2 —

MOTOR NO. — M-0601B
 NAME — PRI. COLLECTOR ROTARY AIRLOCK
 MCC NO. — COMPT. NO. —
 H.P. — 1 SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
 ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE: NONE	DATE	 The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA	
DESIGN BY:			
DRAWN BY: <i>Scarbrough</i>	4-6-79		
CHECKED BY:			
SUPV. BY:			
SUBM'TD BY:			
APP'D BY:		DRAWING NUMBER	REV. NO.
APP'D BY:		06-25-0601B	0

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a —
- b —
- c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL BOILER
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 —
- M2 —

MOTOR NO. — M-0601C
 NAME — MECH. COLLECTOR ROTARY AIRLOCK
 MCC NO. — COMPT. NO. —
 H.P. — 1 SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
 ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA	DRAWING NUMBER 06-25-0601C REV. NO. 0
DESIGN BY:			
DRAWN BY: <i>Exubora</i>	4-6-79		
CHECKED BY:			
SUPV. BY:			
SUBM'TD BY:			
APP'D BY:			
APP'D BY:

CONTROL DEVICE LOCATION
 ▲ - AT OR NEAR MOTOR
 □ - ON STARTER DOOR
 ○ - ON PANEL BOILER

NO.	REVISIONS	MADE	CKD	DATE

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1038
 ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

MOTOR NO. M-0604
 NAME I.D. FAN
 MCC NO. COMPT. NO.
 HP. 2500 SPEED 720/900

SCALE	NONE	DATE	
DESIGN BY:			
DRAWN BY:			
CHECKED BY:			
SUPV. BY:			
SUBMIT'D BY:			
APP'D BY:			
APP'D BY:			

The Rust Engineering Company
 A Subsidiary of Wheelabrator-Frye Inc.
 CONTRACT 21-1899
 BIRMINGHAM ALABAMA
 DRAWING NUMBER **06-25-06040** REV. NO. **0**

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a —
- b —
- c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL ASH HAND
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 —
- M2 —

MOTOR NO. — M-0606A
 NAME — SAND CLASSIFIER
 MCC NO. — COMPT. NO. —
 H.P. — 5 SPEED —

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036

ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE: NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 ALABAMA DRAWING NUMBER 06-25-0606A REV. NO. 0
DESIGN BY:		
DRAWN BY: J. HALE	5/9/79	
CHECKED BY:		
SUPV. BY:		
SUBM'TD BY:		
APP'D BY:		
APP'D BY:		
APP'D BY:		

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a —
- b —
- c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL ASH HAND
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 —
- M2 —

MOTOR NO. — M-0606B
 NAME — SAND CLASSIFIER
 MCC NO. — COMPT. NO. —
 H.P. — 5 SPEED —

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
 ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE: NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 ALABAMA BIRMINGHAM	DRAWING NUMBER 06-25-0606B	REV. NO. 0
DESIGN BY:				
DRAWN BY: J. HALE	5/9/79			
CHECKED BY:				
SUPV. BY:				
SUBM'TO BY:				
APP'D BY:				
APP'D BY:				
APP'D BY:				

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

a —
b —
c —

CONTROL DEVICE LOCATION

△ — AT OR NEAR MOTOR
□ — ON STARTER DOOR
○ — ON PANEL ASH HAND
◇ —

EXTRA INTERLOCKS ON THIS STARTER

M1 —
M2 —

MOTOR NO. — M-0606C
NAME — SAND CLASSIFIER
MCC NO. — COMPT. NO. —
H.P. — 5 SPEED —

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
ADVANCED SYSTEM DEMONSTRATION FOR
UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE
DESIGN BY:	
DRAWN BY: J. HALE	5/9/79
CHECKED BY:	
SUPV. BY:	
SUBM'TD BY:	
APP'D BY:	
APP'D BY:	
APP'D BY:	

The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 ALABAMA	
DRAWING NUMBER 06-25-0606C	REV. NO. 0

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a — SPEED SW. (SSL-3106)
- b —
- c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL ASH HAND
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 —
- M2 —

MOTOR NO. — M-0609A
 NAME — PRECIPITATOR SCREW CONV.
 MCC NO. —
 H.P. — 5
 COMPT. NO. —
 SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT ES-77-C-06-1036
 ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE
DESIGN BY:	
DRAWN BY: <i>Swaborg</i>	4-6-79
CHECKED BY:	
SUPV. BY:	
SUBM'TD BY:	
APP'D BY:	
APP'D BY:	
APP'D BY:	

The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA	
DRAWING NUMBER	REV. NO.
06-25-0609A	0

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a — SPEED SW. (SSL-3108)
- b —
- c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL ASH HAND
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 —
- M2 —

MOTOR NO. — M-0609B
 NAME — PRECIPITATOR SCREW CONJ
 MCC NO. — COMP'T. NO. —
 H.P. — 5 SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
 ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA
DESIGN BY:		
DRAWN BY: Scarborough, L	4-6-79	
CHECKED BY:		
SUPV. BY:		
SUBM'TD BY:		DRAWING NUMBER
APP'D BY:		06-25-0609B
APP'D BY:		REV. NO. 0

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a — SPEED SW. (SSL-3109)
- b —
- c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL ASH HAND
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 —
- M2 —

MOTOR NO. — M-0609C
 NAME — PRECIPITATOR SCREW CONV.
 MCC NO. — COMPT. NO. —
 H.P. — 5 SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
 ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE	 The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA
DESIGN BY:		
DRAWN BY: <i>W. J. ...</i>	4-6-72	
CHECKED BY:		
SUPV. BY:		
SUBM'TD BY:		DRAWING NUMBER 06-25-0609C
APP'D BY:		
APP'D BY:		
APP'D BY:		REV. NO. 0

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a — SPEED SW. (SSL-3009)
- b —
- c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL (ASH HAND PANEL)
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 —
- M2 —

MOTOR NO. — M-0616
 NAME — CLINKER GRINDER
 (BTO. ASH HOP)
 MCC NO. — COMPT. NO. —
 H.P. — 10 SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
 ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA
DESIGN BY:		
DRAWN BY: L. PEDRON	4 10 79	
CHECKED BY:		
SUPV. BY:		
SUBM'TD BY:		DRAWING NUMBER 06-25-0616
APP'D BY:		
APP'D BY:		
APP'D BY:		REV. NO. 0

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a — SPEED SW. (SSL-4100)
- b —
- c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL ASH HAND
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 —
- M2 —

MOTOR NO. — M-0624A
 NAME — SAND CLASSIFIERS
 ROTARY AIRLOCK
 MCC NO. — COMPT. NO. —
 H.P. — 1 SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
 ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE: NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1879 BIRMINGHAM ALABAMA	REV. NO. 0
DESIGN BY:			
DRAWN BY: <i>Scarbrough</i>	4-9-79		
CHECKED BY:			
SUPV. BY:			
SUBM'TD BY:		DRAWING NUMBER	
APP'D BY:		06-25-0624A	
APP'D BY:

INTERLOCKS FROM OTHER EQUIP.

- a — SPEED SW. (SSL-4101)
- b —
- c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL ASH HAND
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 —
- M2 —

MOTOR NO. — M-0624B
 NAME — SAND CLASSIFIERS
 MCC NO. — ROTARY AIRLOCK
 H.P. — 1 COMPT. NO. —
 SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
 ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE, NONE	DATE	<p>The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA</p>
DESIGN BY:		
DRAWN BY: Scarborough	4-9-79	
CHECKED BY:		
SUPV. BY:		
SUBM'TD BY:		DRAWING NUMBER 06-25-0624B
APP'D BY:		
APP'D BY:		
APP'D BY:		REV. NO. 0

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

a — SPEED SW. (SSL-4102)

b —

c —

CONTROL DEVICE LOCATION

△ — AT OR NEAR MOTOR

□ — ON STARTER DOOR

○ — ON PANEL ASH HAND

◇ —

EXTRA INTERLOCKS ON THIS STARTER.

M1 —

M2 —

MOTOR NO. — M-0624C

NAME — SAND CLASSIFIERS
ROTARY AIRLOCK

MCC NO. —

COMPT. NO. —

H.P. — 1

SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036

ADVANCED SYSTEM DEMONSTRATION FOR
UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA	DRAWING NUMBER 06-25-0624C REV. NO. 0
DESIGN BY:			
DRAWN BY: <i>Scarbrough</i>	4-9-79		
CHECKED BY:			
SUPV. BY:			
SUBM'TD BY:			
APP'D BY:			
APP'D BY:			
APP'D BY:

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a — SPEED SW. (SSL-4103)
- b —
- c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL ASH HAND
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 —
- M2 —

MOTOR NO. — M-0624D
 NAME — SAND CLASSIFIERS
 ROTARY AIRLOCK
 MCC NO. — COMPT. NO. —
 H.P. — 1 SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036

ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE: NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA	DRAWING NUMBER 06-25-0624D REV. NO. 0
DESIGN BY:			
DRAWN BY: <i>S. S. S. S.</i>	4-9-77		
CHECKED BY:			
SUPV. BY:			
SUBM'TD BY:			
APP'D BY:			
APP'D BY:			
APP'D BY:

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a — SPEED SW. (SSL-4129)
- b —
- c —

CONTROL DEVICE LOCATION

- Δ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL ASH HAND
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 —
- M2 —

MOTOR NO. — M-0624E
 NAME — SAND CLASSIFIERS
 ROTARY AIRLOCK
 MCC NO. — COMPT. NO. —
 H.P. — 1 SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036

ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE: NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA	DRAWING NUMBER 06-25-0624E REV. NO. 0
DESIGN BY:			
DRAWN BY: <i>Scarbory L</i>	4-9-78		
CHECKED BY:			
SUPV. BY:			
SUBM'TD BY:			
APP'D BY:			
APP'D BY:

INTERLOCKS FROM OTHER EQUIP.

a —
b —
c —

CONTROL DEVICE LOCATION

△ — AT OR NEAR MOTOR
□ — ON STARTER DOOR
○ — ON PANEL BOILER
◇ —

EXTRA INTERLOCKS ON THIS STARTER.

M1 —
M2 — M-0237A

MOTOR NO. — M-0632A
NAME — CYCLONE REJECTS
ROTARY AIR LOCK
MCC NO. — COMPT. NO. —
H.P. — 1 SPEED —

U.S. DEPARTMENT OF ENERGY CONTRACT EG-77-C-06-1036

ADVANCED SYSTEM DEMONSTRATION FOR
UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA	REV. NO.
DESIGN BY:			
DRAWN BY: J. HALE	5/9/79		
CHECKED BY:			
SUPV. BY:			
SUBM'TO BY:		DRAWING NUMBER	06-25-0632A
APP'D BY:			
APP'D BY:

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a —
- b —
- c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL BOILER
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 —
- M2 — M-0237A

MOTOR NO. — M-0632B
 NAME — CYCLONE REJECTS
 ROTARY AIR LOCK
 MCC NO. — COMPT. NO. —
 H.P. — 1 SPEED —

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036

ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE	<p>The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc.</p> <p>CONTRACT 21-1899 ALABAMA</p> <p>DRAWING NUMBER 06-25-0632B REV. NO. 0</p>
DESIGN BY:		
DRAWN BY: J. HALE	5/9/79	
CHECKED BY:		
SUPV. BY:		
SUBMITT BY:		
APP'D BY:		
APP'D BY:		
APP'D BY:

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a —
- b —
- c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL BOILER
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

M1 —
M2 — M-0237C

MOTOR NO. — M-0632 C
NAME — CYCLONE REJECTS
ROTARY AIR LOCK
MCC NO. — COMPT. NO. —
H.P. — 1 SPEED —

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036

ADVANCED SYSTEM DEMONSTRATION FOR
UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 ALABAMA
DESIGN BY:		
DRAWN BY: J. HALE	5/9/79	
CHECKED BY:		
SUPV. BY:		
SUBM'TD BY:		DRAWING NUMBER 06-25-0632 C
APP'D BY:		
APP'D BY:		
APP'D BY:		REV. NO. 0

INTERLOCKS FROM OTHER EQUIP.

- a —
- b —
- c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL BOILER
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

M1 —
M2 — M-0237D

MOTOR NO. — M-0632D
NAME — CYCLONE REJECTS
ROTARY AIR LOCK
MCC NO. — COMPT. NO. —
H.P. — 1 SPEED —

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
ADVANCED SYSTEM DEMONSTRATION FOR
UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 ALABAMA
DESIGN BY:		
DRAWN BY: J. HALE	5/9/79	
CHECKED BY:		
SUPV. BY:		
SUBM'TD BY:		DRAWING NUMBER 06-25-0632D
APP'D BY:		
APP'D BY:		
APP'D BY:		REV. NO.

**U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036**

ADVANCED SYSTEM DEMONSTRATION FOR
UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

MOTOR NO. M-0703
NAME BOILER FEED WATER PUMP
MCC NO. _____ COMPT. NO. _____
HP. 2000 SPEED 3600

CONTROL DEVICE LOCATION

- Δ - AT OR NEAR MOTOR
- - ON STARTER DOOR
- - ON PANEL BOILER

NO.	REVISIONS	MADE	CKD	DATE

SCALE	NONE	DATE	
DESIGN BY:			
DRAWN BY:	Scarborough	4-9-79	
CHECKED BY:			
SUPV. BY:			
SUBM'TD BY:			
APP'D BY:			
APP'D BY:			
APP'D BY:			

The Rust Engineering Company
A Subsidiary of Wheelabrator-Frye Inc.
CONTRACT 21-1899

BIRMINGHAM	ALABAMA
DRAWING NUMBER	REV. NO.
07-25-0703	0

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a —
- b —
- c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL BOILER
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 —
- M2 — ALARM (QA-3407)

MOTOR NO. — M-709A
 NAME — CONDENSATE PUMP NO. 1
 MCC NO. — COMPT. NO. —
 H.P. — 30 SPEED — 3600

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036

ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA	DRAWING NUMBER 07-25-0709A	REV. NO. 0
DESIGN BY:				
DRAWN BY: <i>Scarborough</i>	4-9-79			
CHECKED BY:				
SUPV. BY:				
SUBM'TD BY:				
APP'D BY:				
APP'D BY:

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a - LEVEL SW. (LSL-3201)
b -
c -

CONTROL DEVICE LOCATION

- Δ - AT OR NEAR MOTOR
□ - ON STARTER DOOR
○ - ON PANEL
◇ -

EXTRA INTERLOCKS ON THIS STARTER.

- M1 -
M2 - ALARM (QA-3202)

MOTOR NO. - M-0714A
NAME - DEMINERALIZER SUPPLY PUMP
MCC NO. -
H.P. - 50
COMPT. NO. -
SPEED - 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036

ADVANCED SYSTEM DEMONSTRATION FOR
UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE: NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA
DESIGN BY:		
DRAWN BY: <i>Scarbary, R</i>	4-9-79	
CHECKED BY:		
SUPV. BY:		
SUBM'TD BY:		DRAWING NUMBER
APP'D BY:		07-25-0714A
APP'D BY:		REV. NO.
		0

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a — LEVEL SW (LSL-3201)
- b —
- c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 —
- M2 — ALARM (QA-3203)

MOTOR NO. — M-0714B
 NAME — DEMINERALIZER SUPPLY PUMP
 MCC NO. —
 H.P. — 50
 COMP'T. NO. —
 SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036

ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE: NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899	
DESIGN BY:			
DRAWN BY: L. PEDRON	4-10-79	BIRMINGHAM	ALABAMA
CHECKED BY:		DRAWING NUMBER	REV. NO.
SUPV. BY:		07-25-0714B	0
SUBM'TD BY:			
APP'D BY:			
APP'D BY:

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a - LEVEL SW (LSLL 4200)
- b -
- c -

CONTROL DEVICE LOCATION

- △ - AT OR NEAR MOTOR
- - ON STARTER DOOR
- - ON PANEL
- ◇ -

EXTRA INTERLOCKS ON THIS STARTER.

- M1 -
- M2 - ALARM (QA-4212)

MOTOR NO. - M-0718B
 NAME - DEMINERALIZER WATER PUMP NO.2
 MCC NO. -
 H.P. - 100
 COMPT. NO. -
 SPEED - 3600

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
 ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE: NONE	DATE
DESIGN BY:	
DRAWN BY: L. PEDRON	4-10-79
CHECKED BY:	
SUPV. BY:	
SUBM'TD BY:	
APP'D BY:	
APP'D BY:	
APP'D BY:	

The Rust Engineering Company
 A Subsidiary of Wheelabrator-Frye Inc.
 CONTRACT 21-1899
 BIRMINGHAM ALABAMA

DRAWING NUMBER
 07-25-0718B

REV. NO.
 0

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a — LEVEL SW. (LSLL 4200)
- b —
- c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 — ALARM (QA-4215)
- M2 —

MOTOR NO. — M-0722A
 NAME — CAUSTIC SODA FEEDER PUMP
 MCC NO. —
 H.P. — 1½
 COMP'T. NO. —
 SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036

ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE: NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA
DESIGN BY:		
DRAWN BY: L. PEDRON	4-10-79	
CHECKED BY:		
SUPV. BY:		
SUBM'TD BY:		
APP'D BY:		DRAWING NUMBER
APP'D BY:		07-25-0722A
APP'D BY:		REV. NO.
		0

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a — LEVEL SW. (LSLL-4200)
- b —
- c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 — ALARM (GA-4216)
- M2 —

MOTOR NO. — M-0722B
 NAME — CAUSTIC SODA FEEDER PUMP
 MCC NO. —
 H.P. — 1 1/2
 COMPT. NO. —
 SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036

ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE: NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA	DRAWING NUMBER 07-25-0722B	REV. NO. 0
DESIGN BY:				
DRAWN BY: L. PEDRON	4-10-79			
CHECKED BY:				
SUPV. BY:				
SUBMIT'D BY:				
APP'D BY:				
APP'D BY:				
APP'D BY:

INTERLOCKS FROM OTHER EQUIP.

- a — LEVEL SW. (LSLL-4200)
- b —
- c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 — ALARM (QA-4230)
- M2 —

MOTOR NO. — M-0723A
 NAME — SULFURIC ACID FEEDER PUMP
 MCC NO. —
 H.P. — 1 1/2
 COMP'T. NO. —
 SPEED — 1800

U.S. DEPARTMENT OF ENERGY CONTRACT EG-77-C-06-1036

ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE: NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA	
DESIGN BY:			
DRAWN BY: L. PEDRON	4-10-79		
CHECKED BY:			
SUPV. BY:			
SUBM'TD BY:			
APP'D BY:		DRAWING NUMBER	REV. NO.
APP'D BY:		07-25-0723A	0
APP'D BY:

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

a — LEVEL SW. (LSLL-4200)

b —

c —

CONTROL DEVICE LOCATION

△ — AT OR NEAR MOTOR

□ — ON STARTER DOOR

○ — ON PANEL

◇ —

EXTRA INTERLOCKS ON THIS STARTER

M1 — ALARM (QA-4231)

M2 —

MOTOR NO. — M-0723B

NAME — SULFURIC ACID FEEDER PUMP

MCC NO. —

H.P. — 1 1/2

COMPT. NO. —

SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036

ADVANCED SYSTEM DEMONSTRATION FOR
UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA
DESIGN BY:		
DRAWN BY: L. PEDRON	4-10-79	
CHECKED BY:		
SUPV. BY:		
SUBMIT'D BY:		DRAWING NUMBER
APP'D BY:		07-25-0723B
APP'D BY:		REV. NO.
APP'D BY:		0

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a —
- b —
- c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL BOILER
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 —
- M2 — ALARM (QA-3606)

MOTOR NO. — M-09C2A
 NAME — FUEL OIL PUMP NO. 1
 MCC NO — COMPT. NO. —
 H.P. — 25 SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036

ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE: NONE		DATE	
DESIGN BY:			
DRAWN BY: L. PEDRON		4-9-77	
CHECKED BY:			
SUPV. BY:			
SUBM'TD BY:			
APP'D BY:			
APP'D BY:

The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899		BIRMINGHAM ALABAMA	
DRAWING NUMBER		REV. NO.	
09-25-0902A		0

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a —
- b —
- c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL BOILER
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 —
- M2 — ALARM (QA-3607)

MOTOR NO. — M-0902B
 NAME — FUEL OIL PUMP NO. 2
 MCC NO. — COMPT. NO. —
 H.P. — 25 SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
 ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA
DESIGN BY:		
DRAWN BY: L. PEDRON	4-9-79	
CHECKED BY:		
SUPV. BY:		
SUBM'TO BY:		DRAWING NUMBER
APP'D BY:		09-25-0902B
APP'D BY:		REV. NO.
APP'D BY:		0

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a — SURGE TK HI. LEVEL (LSH-3001)
- b —
- c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
- — ON STARTER DOOR
- — ON PANEL BOILER
- ◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 —
- M2 — ALARM (QA-4130)

MOTOR NO. — M-1001A
 NAME — ASH SLUICE PUMP NO. 1
 MCC NO. — COMP. T. NO. —
 H.P. — 20 SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036

ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA	DRAWING NUMBER 10-25-1001A REV. NO. 0
DESIGN BY:			
DRAWN BY: L PEDRON	4-4-79		
CHECKED BY:			
SUPV. BY:			
SUBM'TD BY:			
APP'D BY:			
APP'D BY:

STARTER CONNECTION DIAGRAM (THIS MOTOR)

INTERLOCKS FROM OTHER EQUIP.

- a — SURGE TK. HI. LEVEL (LSH-3001)
b —
c —

CONTROL DEVICE LOCATION

- △ — AT OR NEAR MOTOR
□ — ON STARTER DOOR
○ — ON PANEL
◇ —

EXTRA INTERLOCKS ON THIS STARTER.

- M1 —
M2 — ALARM (QA-4131)

MOTOR NO. — M-1001B
NAME — ASH SLUICE PUMP NO. 2
MCC NO. —
H.P. — 20
COMPT. NO. —
SPEED — 1800

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
ADVANCED SYSTEM DEMONSTRATION FOR
UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

SCALE NONE	DATE	The Rust Engineering Company A Subsidiary of Wheelabrator-Frye Inc. CONTRACT 21-1899 BIRMINGHAM ALABAMA	DRAWING NUMBER 10-25-1001B REV. NO. 0
DESIGN BY:			
DRAWN BY: L. PEDRON	4-9-79		
CHECKED BY:			
SUPV. BY:			
SUBMITT BY:			
APP'D BY:			
APP'D BY:

U.S. DEPARTMENT OF ENERGY **CONTRACT EG-77-C-06-1036**

ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

MOTOR NO. M-1003A
 NAME ASH SLUICE PUMP
 MCC NO. _____ COMPT. NO. _____
 HP. 200 SPEED 3600

CONTROL DEVICE LOCATION

- Δ - AT OR NEAR MOTOR
- - ON STARTER DOOR
- - ON PANEL *ASH HAND*

NO.	REVISIONS	MADE	CHKD	DATE

SCALE NONE	DATE
DESIGN BY:	
DRAWN BY: <u>L PEDRON</u>	<u>4-9-79</u>
CHECKED BY:	
SUPV. BY:	
SUBM'TD BY:	
APP'D BY:	
APP'D BY:	
APP'D BY:	

The Rust Engineering Company
 A Subsidiary of Wheelabrator Engine Inc.
 CONTRACT 21-165

BIRMINGHAM ALABAMA

DRAWING NUMBER
10-25-1003A

REV NO
0

U.S. DEPARTMENT OF ENERGY
CONTRACT EG-77-C-06-1036
 ADVANCED SYSTEM DEMONSTRATION FOR
 UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

MOTOR NO. M-1003B
 NAME ASH SLUICE PUMP
 MCC NO. _____ COMPT. NO. _____
 HP. 200 SPEED 3600

THI VOLT CONR
 T1
 T2
 T3

CONTROL DEVICE LOCATION

- △ - AT OR NEAR MOTOR
- - ON STARTER DOOR
- - ON PANEL ASH HAND

NO.	REVISIONS	MADE	CHKD	DATE

SCALE	NONE	DATE	
DESIGN BY:			
DRAWN BY:	L. PEDRON	4-9-79	
CHECKED BY:			
SUPV. BY:			
SUBM'TD BY:			
APP'D BY:			
APP'D BY:			
APP'D BY:

The Rust Engineering Company
 A Subsidiary of Worlath & Co., Inc.
 CONTRACT 21 1899
 BIRMINGHAM, ALABAMA

DRAWING NUMBER
10-25-1003B

0

U.S. DEPARTMENT OF ENERGY CONTRACT EG-77-C-06-1036

ADVANCED SYSTEM DEMONSTRATION FOR
UTILIZATION OF BIOMASS AS AN ENERGY SOURCE

MOTOR NO. M-1003C
NAME ASH SLUICE PUMP
MCC NO. _____ COMPT. NO. _____
HP. 200 SPEED 3600

CONTROL DEVICE LOCATION

- △ - AT OR NEAR MOTOR
- - ON STATER DOOR
- - ON PANEL ASH HAND

NO.	REVISIONS	MADE	CKD	DATE

SCALE NONE	DATE
DESIGN BY:	
DRAWN BY: L. PEDRON	4-9-79
CHECKED BY:	
SUPV. BY:	
SUBM'TD BY:	
APP'D BY:	
APP'D BY:	
APP'D BY:	

The Rust Engineering Company
A Subsidiary of Wheelabrator-Frye Inc.
CONTRACT 21-1395

BIRMINGHAM ALABAMA

DRAWING NUMBER **10-25-1003C** REV NO. **0**

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
02-LSHH-2100	MAGNETROL	HIGH-HIGH LEVEL SWITCH					02-28-021		
02-LAHH-2100	RIS	HIGH-HIGH LEVEL ALARM POINT						USES SAME POINT AS 02-LAHH-2139	
02-LSHH-2101	MAGNETROL	HIGH-HIGH LEVEL SWITCH							
02-LAHH-2101	RIS	HIGH-HIGH LEVEL ALARM POINT							
02-SSL-2102	————	ZERO SPEED SWITCH						FURNISHED BY CONVEYOR VENDOR	
02-SLL-2102	G.E.	PILOT LIGHT (RED)						FURNISHED BY PANEL VENDOR	
02-LSH-2103	DREXELBROOK	HIGH LEVEL SWITCH							
02-LAH-2103	RIS	HIGH LEVEL ALARM POINT							
02-LSH-2104	DREXELBROOK	HIGH LEVEL SWITCH							
02-LAH-2104	RIS	HIGH LEVEL ALARM POINT							
02-SSL-2105	————	ZERO SPEED SWITCH						VENDOR FURNISHED	
02-SLL-2105	G.E.	PILOT LIGHT (RED)						FURNISHED BY PANEL VENDOR	
02-SSL-2106	————	ZERO SPEED SWITCH						FURNISHED BY CONVEYOR VENDOR	
02-SLL-2106	G.E.	PILOT LIGHT (RED)						FURNISHED BY PANEL VENDOR

The Rust Engineering Company	21-1899 FOR: BIOMASS CONVERSION, DOE WEST BROOK, MAINE	DRAWN BY: PARKIN	DATE: 1-3-79	INSTRUMENT INDEX NO 21-1899	REV. 0	PAGE: 1
		CHECKED BY:	DATE:			
		APPROVED BY:	DATE:			

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
02-LSH-2107	DREXELBROOK	HIGH LEVEL SWITCH					02-28-021		
02-LAH-2107	RIS	HIGH LEVEL ALARM POINT							
02-SSL-2108	—	ZERO SPEED SWITCH						FURNISHED BY CONVEYOR VENDOR	
02-SLL-2108	G.E.	PILOT LIGHT (RED)						FURNISHED BY PANEL VENDOR	
02-SSL-2109	—	ZERO SPEED SWITCH						FURNISHED BY CONVEYOR VENDOR	
02-SLL-2109	G.E.	PILOT LIGHT (RED)						FURNISHED BY PANEL VENDOR	
02-LSH-2110	DREXELBROOK	HIGH LEVEL SWITCH							
02-LAH-2110	RIS	HIGH LEVEL ALARM POINT							
02-SSL-2111	—	ZERO SPEED SWITCH						FURNISHED BY CONVEYOR VENDOR	
02-SLL-2111	G.E.	PILOT LIGHT (RED)						FURNISHED BY PANEL VENDOR	
02-SSL-2112	—	ZERO SPEED SWITCH						FURNISHED BY CONVEYOR VENDOR	
02-SLL-2112	G.E.	PILOT LIGHT (RED)						FURNISHED BY PANEL VENDOR	

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
02-LSH-2113	DREXELBROOK	HIGH LEVEL SWITCH					02-28-021		
02-LAH-2113	RIS	HIGH LEVEL ALARM POINT							
02-25-2114	———	END OF TRAVEL POSITION SWITCH						FURNISHED BY CONVEYOR VENDOR	
02-2L-2114	G.E.	PILOT LIGHT (BLUE)						FURNISHED BY PANEL VENDOR	
02-LSH-2115	DREXELBROOK	HIGH LEVEL SWITCH							
02-LAH-2115	RIS	HIGH LEVEL ALARM POINT							
02-LSH-2116	DREXELBROOK	HIGH LEVEL SWITCH							
02-LAH-2116	RIS	HIGH LEVEL ALARM POINT							
02-SSL-2117	———	ZERO SPEED SWITCH						FURNISHED BY CONVEYOR VENDOR	
02-SLL-2117	G.E.	PILOT LIGHT (RED)						FURNISHED BY PANEL VENDOR	
02-LSH-2118	DREXELBROOK	HIGH LEVEL SWITCH							
02-LAH-2118	RIS	HIGH LEVEL ALARM POINT							

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
02-ES-2119	G.E.	SELECTOR SWITCH (2POS.)					02-28-021	FURNISHED BY PANEL VENDOR	
02-ZSO-2119	—	OPEN POSITION SWITCH						FURNISHED BY MOTORIZED GATE VENDOR	
02-ZLO-2119	G.E.	PILOT LIGHT (AMBER)						FURNISHED BY PANEL VENDOR	
02-ZSC-2119	—	CLOSED POSITION SWITCH						FURNISHED BY MOTORIZED GATE VENDOR	
02-ZLC-2119	G.E.	PILOT LIGHT (BLUE)						FURNISHED BY PANEL VENDOR	
02-ZLO-2119	G.E.	PILOT LIGHT (AMBER)						FURNISHED BY PANEL VENDOR • BOILER PANEL	
02-ZLC-2119	G.E.	PILOT LIGHT (BLUE)						FURNISHED BY PANEL VENDOR • BOILER PANEL	
02-LSH-2120	DREXELBROOK	HIGH LEVEL SWITCH							
02-LAH-2120	RIS	HIGH LEVEL ALARM POINT							
02-ES-2121	G.E.	SELECTOR SWITCH (2POS.)						FURNISHED BY PANEL VENDOR	
02-ZSO-2121	—	OPEN POSITION SWITCH						FURNISHED BY SCALPER VENDOR	
02-ZLO-2121	G.E.	PILOT LIGHT (AMBER)						FURNISHED BY PANEL VENDOR	
02-ZSC-2121	—	CLOSED POSITION SWITCH						FURNISHED BY SCALPER VENDOR	
02-ZLC-2121	G.E.	PILOT LIGHT (BLUE)						FURNISHED BY PANEL VENDOR	
02-LSH-2122	DREXELBROOK	HIGH LEVEL SWITCH							
02-LAH-2122	RIS	HIGH LEVEL ALARM POINT							
02-ZS-2123	—	END OF TRAVEL POSITION SWITCH						FURNISHED BY CONVEYOR VENDOR	
02-ZL-2123	G.E.	PILOT LIGHT (AMBER)						FURNISHED BY PANEL VENDOR

The Rust
Engineering Company

21-1899

FOR: BIOMASS CONVERSION, DOE

WESTBROOK, MAINE

DRAWN BY: PARKIN

CHECKED BY:

APPROVED BY:

DATE: 1-3-79

DATE:

DATE:

INSTRUMENT INDEX

NO 21-1899

REV. 0

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TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
02-SSL-2124	—	ZERO SPEED SWITCH					02-28-021	FURNISHED BY CONVEYOR VENDOR	
02-SLL-2124	G.E.	PILOT LIGHT (RED)						FURNISHED BY PANEL VENDOR	
02-VC-2125	DIAMOND ELECTRONIC	VIDEO CAMERA							
02-VM-2125	DIAMOND ELECTRONIC	VIDEO MONITOR							
02-LSH-2126	DREXELBROOK	HIGH LEVEL SWITCH							
02-LAH-2126	RIS	HIGH LEVEL ALARM POINT							
02-SSL-2127	—	ZERO SPEED SWITCH						FURNISHED BY CONVEYOR VENDOR	
02-SLL-2127	G.E.	PILOT LIGHT (RED)						FURNISHED BY PANEL VENDOR	
02-LSH-2128	DREXELBROOK	HIGH LEVEL SWITCH							
02-LAH-2128	RIS	HIGH LEVEL ALARM POINT							
02-SSL-2129	—	ZERO SPEED SWITCH						FURNISHED BY CONVEYOR VENDOR	
02-SLL-2129	G.E.	PILOT LIGHT (RED)						FURNISHED BY PANEL VENDOR	

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
02-LSH-2130	DREXELBROOK	HIGH LEVEL SWITCH					02-28-021		
02-LAH-2130	RIS	HIGH LEVEL ALARM POINT							
02-ESS-2131	GE	SELECTOR SWITCH (3POS.)						FURNISHED BY PANEL VENDOR	
02-LSH-2132	DREXELBROOK	HIGH LEVEL SWITCH							
02-LAH-2132	RIS	HIGH LEVEL ALARM POINT							
02-WE-2133	—	WEIGHT ELEMENT						VENDOR FURNISHED	
02-WX-2133	—	WEIGHT TRANSMITTER						VENDOR FURNISHED	
02-WQT-2133	—	WEIGHT TOTALIZER						VENDOR FURNISHED	
02-WE-2134	—	WEIGHT ELEMENT						VENDOR FURNISHED	
02-WX-2134	—	WEIGHT TRANSMITTER						VENDOR FURNISHED	
02-WQT-2134	—	WEIGHT TOTALIZER						VENDOR FURNISHED	
02-TSL-2135	ASCO-TRI-POINT	LOW TEMP. SWITCH							
02-TSL-2136	ASCO TRI-POINT	LOW TEMP. SWITCH							

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
02-LSNH/H/L-2137	MAGNATROL	HIGH-HIGH/HIGH/LOW LEVEL SWITCHES					02-28-021		
02-LAHM - 2137	RIS	HIGH-HIGH LEVEL ALARM FC NT						USES SAME POINT AS 02-LAHM-2100	
02-WE- 2138	—	WEIGHT ELEMENT						VENDOR FURNISHED	
02-WX- 2138	—	WEIGHT TRANSMITTER						VENDOR FURNISHED	
02-WQT-2138	—	WEIGHT TOTALIZER						VENDOR FURNISHED	
02-LSNH/H/L-2139	MAGNATROL	HIGH-HIGH/HIGH/LOW LEVEL SWITCHES							
—	G.E.	PILOT LIGHT (GREEN) FOR MAGNET MG-0218						BY PANEL VENDOR	
—	G.E.	PILOT LIGHT (RED) FOR MAGNET MG-0218						BY PANEL VENDOR	
—	G.E.	PILOT LIGHT (GREEN) FOR MAGNET MG-0219						BY PANEL VENDOR	
—	G.E.	PILOT LIGHT (RED) FOR MAGNET MG-0219						BY PANEL VENDOR	

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO:	RECEIVED
02-LAH-2200	RIS	HIGH-HIGH LEVEL ALARM POINT					02-28-022	COMMON ALARM FOR 02-LSH/H/L-2200A, B & C	
02-LSH/H/L-2200A	MAGNETROL	HIGH-HIGH/HIGH/LOW LEVEL SWITCHES							
02-LSH/H/L-2200B	MAGNETROL	HIGH-HIGH/HIGH/LOW LEVEL SWITCHES							
02-LSH/H/L-2200C	MAGNETROL	HIGH-HIGH/HIGH/LOW LEVEL SWITCHES							
02-SSL-2201	—	ZERO SPEED SWITCH						FURNISHED BY CONVEYOR VENDOR	
02-SLL-2201	GE	PILOT LIGHT (RED)						FURNISHED BY PANEL VENDOR	
02-SSL-2202	—	ZERO SPEED SWITCH						FURNISHED BY CONVEYOR VENDOR	
02-SLL-2202	GE	PILOT LIGHT (RED)						FURNISHED BY PANEL VENDOR	
02-LSH-2203	DREXELBROOK	HIGH LEVEL SWITCH							
02-LAH-2203	RIS	HIGH LEVEL ALARM POINT							
02-SSL-2204A	—	ZERO SPEED SWITCH						FURNISHED BY RECLAIMER VENDOR	
02-SLL-2204A	GE	PILOT LIGHT (RED)						FURNISHED BY PANEL VENDOR	
02-SSL-2204B	—	ZERO SPEED SWITCH						FURNISHED BY RECLAIMER VENDOR	
02-SLL-2204B	GE	PILOT LIGHT (RED)						FURNISHED BY PANEL VENDOR	

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO:	RECEIVED
02-LSH-2205	DREXEL BROOK	HIGH LEVEL SWITCH					02-28-022		
02-LAH-2205	RIS	HIGH LEVEL ALARM POINT							
02-LSH-2206	DREXEL BROOK	HIGH LEVEL SWITCH							
02-LAH-2206	RIS	HIGH LEVEL ALARM POINT							
02-ESS-2207	GE	SELECTOR SWITCH (2POS.)						FURNISHED BY PANEL VENDOR	
02-ZSO-2207	—	OPEN POSITION SWITCH						FURNISHED BY SCALPER VENDOR	
02-ZLO-2207	GE	PILOT LIGHT (AMBER)						FURNISHED BY PANEL VENDOR	
02-ZSC-2207	—	CLOSED POSITION SWITCH						FURNISHED BY SCALPER VENDOR	
02-ZLC-2207	GE	PILOT LIGHT (BLUE)						FURNISHED BY PANEL VENDOR	
02-SSL-2208	—	ZERO SPEED SWITCH						FURNISHED BY CONVEYOR VENDOR	
02-SLL-2208	GE	PILOT LIGHT (RED)						FURNISHED BY PANEL VENDOR	
02-LSH-2209	DREXEL BROOK	HIGH LEVEL SWITCH							
02-LAH-2209	RIS	HIGH LEVEL ALARM LIGHT							

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
02-LSH-2210	DREXELBROOK	HIGH LEVEL SWITCH					02-28-022		
02-LAH-2210	RIS	HIGH LEVEL ALARM POINT							
02-VC-2211	DIAMOND ELECTRONICS	VIDEO CAMERA							
02-VM-2211	DIAMOND ELECTRONICS	VIDEO MONITOR							
02-ES-2212	GE	SELECTOR SWITCH (2POS.)						FURNISHED BY PANEL VENDOR	
02-ZSO-2212	—	OPEN POSITION SWITCH						FURNISHED BY HOG VENDOR	
02-ZLO-2212	GE	PILOT LIGHT (AMBER)						FURNISHED BY PANEL VENDOR	
02-ZSC-2212	—	CLOSED POSITION SWITCH						FURNISHED BY HOG VENDOR	
02-ZLC-2212	GE	PILOT LIGHT (BLUE)						FURNISHED BY PANEL VENDOR	
02-LSH-2213A	DREXELBROOK	HIGH LEVEL SWITCH							
02-LSH-2213B	DREXELBROOK	HIGH LEVEL SWITCH							
02-LAH-2213	RIS	HIGH LEVEL ALARM POINT						COMMON ALARM FOR 02-LSH-2213A & B	
02-SSL-2214	—	ZERO SPEED SWITCH						FURNISHED BY CONVEYOR VENDOR	
02-SLL-2214	GE	PILOT LIGHT (RED)						FURNISHED BY PANEL VENDOR	

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
02-LSH-2215	DREXELBROOK	HIGH LEVEL SWITCH					02-28-022		
02-LAH-2215	RIS	HIGH LEVEL ALARM POINT							
02-WE-2216	—	WEIGHT ELEMENT						FURNISHED BY CONVEYOR VENDOR	
02-WX-2216	—	WEIGHT TRANSMITTER						FURNISHED BY CONVEYOR VENDOR	
02-WQT-2216	—	WEIGHT TOTALIZER						FURNISHED BY CONVEYOR VENDOR	
02-SX-2217	—	SPEED TRANSMITTER						FURNISHED BY RECLAIMER VENDOR	
02-SIC-2217	FOXBORO	SPEED INDICATING CONTROLLER						REMOTE SETPOINT FROM 02-LIC-2224	
02-SZ-2217	—	SPEED DRIVE						FURNISHED BY RECLAIMER VENDOR	
02-SX-2218	—	SPEED TRANSMITTER						FURNISHED BY RECLAIMER VENDOR	
02-SIC-2218	FOXBORO	SPEED INDICATING CONTROLLER						REMOTE SETPOINT FROM 02-LIC-2224	
02-SZ-2218	—	SPEED DRIVE						FURNISHED BY RECLAIMER VENDOR	
02-LSH-2219	DREXELBROOK	HIGH LEVEL SWITCH							
02-LAH-2219	RIS	HIGH LEVEL ALARM POINT

**The Rust
Engineering Company**

21-1899

FOR: BIOMASS CONVERSION, DOE

WESTBROOK, MAINE

DRAWN BY: PARKIN

CHECKED BY:

APPROVED BY:

DATE: 1-3-79

DATE:

DATE:

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02-SSL-2220	—	ZERO SPEED SWITCH					02-28-022	FURNISHED BY CONVEYOR VENDOR	
02-SLL-2220	GE	PILOT LIGHT (RED)						FURNISHED BY PANEL VENDOR	
02-LSH-2221	DREXELBROOK	HIGH LEVEL SWITCH							
02-LAH-2221	RIS	HIGH LEVEL ALARM POINT							
02-LSH-2222	DREXELBROOK	HIGH LEVEL SWITCH							
02-LAH-2222	RIS	HIGH LEVEL ALARM POINT							
02-LSH-2223	DREXELBROOK	HIGH LEVEL SWITCH							
02-LAH-2223	RIS	HIGH LEVEL ALARM POINT							
02-LX-2224	DREXELBROOK	LEVEL XMTR							
02-LIC-2224	FOXBORO	INDICATING LEVEL Controller						SETPOINTS TO 02-SIC-2217/2218.	
02-LSH-2224	FOXBORO	HIGH LEVEL SWITCH							
02-LAH-2224	RIS	HIGH LEVEL ALARM POINT							
02-LSL-2224	FOXBORO	LOW LEVEL SWITCH							
02-LAL-2224	RIS	LOW LEVEL ALARM POINT							

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02-LSH-2300	DREXEL BROOK	HIGH LEVEL SWITCH					02-28-023		
02-LAH-2300	RIS	HIGH LEVEL ALARM POINT							
02-FV-2301	—	DAMPER						BY DAMPER VENDOR	
02-ZSC-2301	—	CLOSED POSITION SWITCH						BY DAMPER VENDOR	
02-ZLC-2301	GE	PILOT LIGHT (BLUE)						BY PANEL VENDOR	
02-ZSO-2301	—	OPEN POSITION SWITCH						BY DAMPER VENDOR	
02-ZLO-2301	GE	PILOT LIGHT (AMBER)						BY PANEL VENDOR	
02-ESS-2301	GE	SELECTOR SWITCH						BY PANEL VENDOR	
02-FZ-2301	—	DAMPER OPERATOR						FURN. WITH DAMPER	
02-SSL-2302	—	ZERO SPEED SWITCH						VENDOR FURNISHED	
02-SLL-2302	GE	PILOT LIGHT (RED)						BY PANEL VENDOR	
02-SSL-2303	—	ZERO SPEED SWITCH						VENDOR FURNISHED	
02-SLL-2303	GE	PILOT LIGHT (RED)						BY PANEL VENDOR	
02-SSL-2304	—	ZERO SPEED SWITCH						VENDOR FURNISHED	
02-SLL-2304	GE	PILOT LIGHT (RED)						BY PANEL VENDOR

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02-FV-2310A	—	DAMPER					02-28-023	BY DAMPER VENDOR	
02-ZSO-2310A	—	OPEN POSITION SWITCH						BY DAMPER VENDOR	
02-ZLO-2310A	GE	PILOT LIGHT (AMBER)						BY PANEL VENDOR	
02-ZSC-2310A	—	CLOSED POSITION SWITCH						BY DAMPER VENDOR	
02-ZLC-2310A	GE	PILOT LIGHT (BLUE)						BY PANEL VENDOR	
02-ESS-2310	GE	SELECTOR SWITCH						BY PANEL VENDOR	
02-FZ-2310A	—	DAMPER OPERATOR						FURNISHED WITH DAMPER	
02-FV-2310B	—	DAMPER						BY DAMPER VENDOR	
02-ZSO-2310B	—	OPEN POSITION SWITCH						BY DAMPER VENDOR	
02-ZLO-2310B	GE	PILOT LIGHT (AMBER)						BY PANEL VENDOR	
02-ZSC-2310B	—	CLOSED POSITION SWITCH						BY DAMPER VENDOR	
02-ZLC-2310B	GE	PILOT LIGHT (BLUE)						BY PANEL VENDOR	
02-FZ-2310B	—	DAMPER OPERATOR						FURNISHED WITH DAMPER	
02-LSH-2311	DREXELBROOK	HIGH LEVEL SWITCH							
02-LAH-2311	RIS	HIGH LEVEL ALARM POINT							
02-SSL-2312	—	ZERO SPEED SWITCH						VENDOR FURNISHED	
02-SLL-2312	GE	PILOT LIGHT (RED)						BY PANEL VENDOR

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02-FE-2313	ELLISON	ANNUBAR					02-28-023		
02-FX-2313	FOXBORO	FLOW TRANSMITTER							
02-FYB-2313	FOXBORO	√ EXTRACTOR							
02-FIC-2313	FOXBORO	FLOW INDICATING CONTROLLER							
02-I/P-2313	MASONEILLAN	TRANSDUCER							
02-EX-2313	—	POSITION TRANSMITTER						BY DAMPER VENDOR	
02-ZI-2313	FOXBORO	POSITION INDICATOR							
02-FV-2313	—	DAMPER						BY DAMPER VENDOR	
02-FZ-2313	—	DAMPER OPERATOR						FURN WITH DAMPER	
02-250-2313A	—	POSITION SWITCH							
02-250-2313B	—	POSITION SWITCH							
02-PI-2315	HELICOID	LOCAL PRESSURE INDICATOR							
02-TX/TE-2316	FOXBORO	TEMP. TRANS. / ELEMENT							
02-TI-2316	FOXBORO	TEMP. INDICATOR

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02-FV-2317	—	DAMPER					02-28-023	BY DAMPER VENDOR	
02-ZSC-2317	—	CLOSED POSITION SWITCH						BY DAMPER VENDOR	
02-ZLC-2317	GE	PILOT LIGHT (BLUE)						BY PANEL VENDOR	
02-ZSO-2317	—	OPEN POSITION SWITCH						BY DAMPER VENDOR	
02-ZLO-2317	GE	PILOT LIGHT (AMBER)						BY PANEL VENDOR	
02-FZ-2317	—	DAMPER OPERATOR						FURNISH WITH DAMPER	
02-ESS-2317	GE	SELECTOR SWITCH						BY PANEL VENDOR	
02-LSH-2318	DREXELBROOK	HIGH LEVEL SWITCH							
02-LAH-2318	RIS	HIGH LEVEL ALARM POINT							
02-FV-2319	—	DAMPER						BY DAMPER VENDOR	
02-ESS-2319	GE	SELECTOR SWITCH						BY PANEL VENDOR	
02-ZSO-2319	—	OPEN POSITION SWITCH						BY DAMPER VENDOR	
02-ZLO-2319	GE	PILOT LIGHT (AMBER)						BY PANEL VENDOR	
02-ZSC-2319	—	CLOSED POSITION SWITCH						BY DAMPER VENDOR	
02-ZLC-2319	GE	PILOT LIGHT (BLUE)						BY PANEL VENDOR	
02-FZ-2319	—	DAMPER OPERATOR						FURNISH WITH DAMPER

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02-LSH-2320	DREXELBROOK	HIGH LEVEL SWITCH					02-28-023		
02-LAH-2320	RIS	HIGH LEVEL ALARM POINT							
02-ZSO-2321	—	OPEN POSITION SWITCH						VENDOR FURNISHED	
02-TSH-2321	—	HIGH TEMPERATURE SWITCH						VENDOR FURNISHED	
02-TV-2321	—	SOLENOID VALVE						VENDOR FURNISHED	
02-ZLO-2321	GE	PILOT LIGHT (AMBER)						BY PANEL VENDOR	
02-SSL-2322	—	ZERO SPEED SWITCH						VENDOR FURNISHED	
02-SLL-2322	GE	PILOT LIGHT (RED)						BY PANEL VENDOR	
02-SSL-2323	—	ZERO SPEED SWITCH						VENDOR FURNISHED	
02-SLL-2323	GE	PILOT LIGHT (RED)						BY PANEL VENDOR	
02-LSH-2324	DREXELBROOK	HIGH LEVEL SWITCH							
02-LAH-2324	RIS	HIGH LEVEL ALARM POINT

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							02-28-023		
02-FV-2327A	—	DAMPER						BY DAMPER VENDOR	
02-ESS-2327	GE	SELECTOR SWITCH						BY PANEL VENDOR	
02-ZSO-2327A	—	OPEN POSITION SWITCH						BY DAMPER VENDOR	
02-ZLO-2327A	GE	PILOT LIGHT (AMBER)						BY PANEL VENDOR	
02-ZSC-2327A	—	CLOSED POSITION SWITCH						BY DAMPER VENDOR	
02-ZLC-2327A	GE	PILOT LIGHT (BLUE)						BY PANEL VENDOR	
02-FZ-2327A	—	DAMPER OPERATOR						FURNISH WITH DAMPER	
02-FV-2327B	—	DAMPER						BY DAMPER VENDOR	
02-ZSO-2327B	—	OPEN POSITION SWITCH						BY DAMPER VENDOR	
02-ZSC-2327B	—	CLOSED POSITION SWITCH						BY DAMPER VENDOR	
02-ZLO-2327B	GE	PILOT LIGHT (AMBER)						BY PANEL VENDOR	
02-ZLC-2327B	GE	PILOT LIGHT (BLUE)						BY PANEL VENDOR	
02-FZ-2327B	—	DAMPER OPERATOR						FURNISH WITH DAMPER

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02-FE-2328	ELLISON	ANNUBAR					02-28-023		
02-FX-2328	FOXBORO	FLOW TRANSMITTER							
02-FYB-2328	FOXBORO	√ EXTRACTOR							
02-FIC-2328	FOXBORO	FLOW INDICATING CONTROLLER							
02-I/P-2328	MASONEILAN	TRANSDUCER							
02-ZX-2328	—	POSITION TRANSMITTER						BY DAMPER VENDOR	
02-ZI-2328	FOXBORO	POSITION INDICATOR							
02-FV-2328	—	DAMPER						BY EQUIP. VENDOR	
02-FZ-2328	—	DAMPER OPERATOR						FURNISH WITH DAMPER	
02-ZSO-2328A+B	—	POSITION SWITCHES						BY DAMPER VENDOR	
02-FV-2329	—	DAMPER						BY EQUIP. VENDOR	
02-ZSC-2329	—	CLOSED POSITION SWITCH						BY DAMPER VENDOR	
02-ZLC-2329	GE	PILOT LIGHT (BLUE)						BY PANEL VENDOR	
02-ZSO-2329	—	OPEN POSITION SWITCH						BY DAMPER VENDOR	
02-ZLO-2329	GE	PILOT LIGHT (AMBER)						BY PANEL VENDOR	
02-ESS-2329	GE	SELECTOR SWITCH						BY PANEL VENDOR	
02-FZ-2329	—	DAMPER OPERATOR						FURNISH WITH DAMPER	
02-LSH-2330	DREXELBROOK	HIGH LEVEL SWITCH							
02-LAH-2330	RIS	HIGH LEVEL ALARM POINT							

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
02-FV-2331	—	DAMPER					02-28-023	BY EQUIP. VENDOR	
02-ESS-2331	GE	SELECTOR SWITCH						BY PANEL VENDOR	
02-ZSO-2331	—	OPEN POSITION SWITCH						BY DAMPER VENDOR	
02-ZLD-2331	GE	PILOT LIGHT (AMBER)						BY PANEL VENDOR	
02-ZSC-2331	—	CLOSED POSITION SWITCH						BY DAMPER VENDOR	
02-ZLC-2331	GE	PILOT LIGHT (BLUE)						BY PANEL VENDOR	
02-FZ 2331	—	DAMPER OPERATOR						FURNISH WITH DAMPER	
02-SSL-2332	—	ZERO SPEED SWITCH						VENDOR FURNISHED	
02 SLL-2332	GE	PILOT LIGHT (RED)						BY PANEL VENDOR	
02-SSL-2333	—	ZERO SPEED SWITCH						VENDOR FURNISHED	
02-SLL-2333	GE	PILOT LIGHT (RED)						BY PANEL VENDOR	
02-LSH-2334	DREXELBROOK	HIGH LEVEL SWITCH							
02-LAH-2334	RIS	HIGH LEVEL ALARM POINT							
02-SSL-2335	—	ZERO SPEED SWITCH						VENDOR FURNISHED	
02 SLL-2335	GE	PILOT LIGHT (RED)						BY PANEL VENDOR

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02-SSL-2336	—	ZERO SPEED SWITCH					02-28-023	VENDOR FURNISHED	
02-SLL-2336	GE	PILOT LIGHT (RED)						BY PANEL VENDOR	
02-LSH-2337	DREXELBROOK	HIGH LEVEL SWITCH							
02-LAH-2337	RIS	HIGH LEVEL ALARM POINT							
02-TSH-2340	—	HIGH TEMPERATURE SWITCH						VENDOR FURNISHED	
02-TV-2340	—	SOLENOID VALVE						VENDOR FURNISHED	
02-ZSO-2340	—	OPEN POSITION SWITCH						↓	
02-ZLO-2340	GE	PILOT LIGHT (AMBER)						BY PANEL VENDOR	

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TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
02-FE-2342	ELLISON	ANNUBAR					02-20-023		
02-FX-2342	FOXBORO	FLOW TRANSMITTER							
02-FYB-2342	FOXBORO	EXTRACTOR							
02-FIC-2342	FOXBORO	FLOW INDICATING CONTROLLER							
02-I/P-2342	MASON/ELAN	TRANSDUCER							
02-FV-2342	—	DAMPER						BY EQUIP. VENDOR	
02-ZX-2342	—	POSITION TRANSMITTER						BY DAMPER VENDOR	
02-ZI-2342	FOXBORO	POSITION INDICATOR							
02-FZ-2342	—	DAMPER OPERATOR						FURNISHED WITH DAMPER	
02-ZSD-2342A	—	POSITION SWITCH							
02-ZSD-2342B	—	POSITION SWITCH							
02-FV-2343	—	DAMPER						BY EQUIP. VENDOR	
02-ESS-2343	GE	SELECTOR SWITCH						BY PANEL VENDOR	
02-ZSD-2343	—	OPEN POSITION SWITCH						BY DAMPER VENDOR	
02-ZLD-2343	GE	PILOT LIGHT (AMBER)						BY PANEL VENDOR	
02-ZSC-2343	—	CLOSED POSITION SWITCH						BY DAMPER VENDOR	
02-ZLG-2343	GE	PILOT LIGHT (BLUE)						BY PANEL VENDOR	
02-FZ-2343	—	DAMPER OPERATOR						FURNISH WITH DAMPER	
02-LSH-2344	DREXELBROOK	HIGH LEVEL SWITCH							
02-LAH-2344	RIS	HIGH LEVEL ALARM POINT							

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							02-28-023		
02-SSL-2345	—	ZERO SPEED SWITCH						EQUIP. VENDOR FURNISHED	
02-SLL-2345	GE	PILOT LIGHT (RED)						BY PANEL VENDOR	
02-SSL-2346	—	ZERO SPEED SWITCH						EQUIP. VENDOR FURNISHED	
02-SLL-2346	GE	PILOT LIGHT (RED)						BY PANEL VENDOR	
02-LSH-2347	DREXELBROOK	HIGH LEVEL SWITCH							
02-LAH-2347	RIS	HIGH LEVEL ALARM POINT							
02-SSL-2348	—	ZERO SPEED SWITCH						EQUIP. VENDOR FURNISHED	
02-SLL-2348	GE	PILOT LIGHT (RED)						BY PANEL VENDOR

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02-SSL-2349	—	ZERO SPEED SWITCH					02-28-023	EQUIP. VENDOR FURNISHED	
02-SIL-2349	GE	PILOT LIGHT (RED)						BY PANEL VENDOR	
02-LSH-2350	DREXELBROOK	HIGH LEVEL SWITCH							
02-LAH-2350	RIS	HIGH LEVEL ALARM POINT							
02-FV-2352	—	DAMPER						BY EQUIP. VENDOR	
02-ESS-2352	GE	SELECTOR SWITCH						BY PANEL VENDOR	
02-ZSO-2352	—	POSITION SWITCH (OPEN)						BY DAMPER VENDOR	
02-ZLO-2352	GE	PILOT LIGHT (AMBER)						BY PANEL VENDOR	
02-ZSC-2352	—	POSITION SWITCH (CLOSED)						BY DAMPER VENDOR	
02-ZLC-2352	GE	PILOT LIGHT (BLUE)						BY PANEL VENDOR	
02-FZ-2352	—	DAMPER OPERATOR						FURNISH WITH DAMPER

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							02-28-023		
02-TSH-2354	—	HIGH TEMPERATURE SWITCH						EQUIP. VENDOR FURNISHED	
02-TV-2354	—	SOLENOID VALVE						VENDOR FURNISHED	
02-ZSO-2354	—	OPEN POSITION SWITCH						↓	
02-ZLO-2354	GE	PILOT LIGHT (AMBER)						BY PANEL VENDOR	
02-FV-2355A	—	DAMPER						BY EQUIP. VENDOR	
02-ESS-2355	GE	SELECTOR SWITCH						BY PANEL VENDOR	
02-ZSO-2355A	—	OPEN POSITION SWITCH						BY DAMPER VENDOR	
02-ZLO-2355A	GE	PILOT LIGHT (AMBER)						BY PANEL VENDOR	
02-ZSC-2355A	—	CLOSED POSITION SWITCH						BY DAMPER VENDOR	
02-ZLC-2355A	GE	PILOT LIGHT (BLUE)						BY PANEL VENDOR	
02-FZ-2355A	—	DAMPER OPERATOR						FURNISH WITH DAMPER

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02-FV-2355B	—	DAMPER					02-28-023	BY EQUIP. VENDOR	
02-ZSO-2355B	—	OPEN POSITION SWITCH						BY DAMPER VENDOR	
02-ZLO-2355B	GE	PILOT LIGHT (AMBER)						BY PANEL VENDOR	
02-ZSC-2355B	—	CLOSED POSITION SWITCH						BY DAMPER VENDOR	
02-ZLC-2355B	GE	PILOT LIGHT (BLUE)						BY PANEL VENDOR	
02-FZ-2355B	—	DAMPER OPERATOR						FURNISH WITH DAMPER	
02-FE-2356	ELLISON	ANNUBAR							
02-FX-2356	FOXBORO	FLOW TRANSMITTER							
02-FYB-2356	↓	EXTRACTOR							
02-FK-2356	↓	FLOW INDICATING CONTROLLER							
02-I/P-2356	MASONEILAN	TRANSDUCER							
02-FV-2356	—	DAMPER						BY EQUIP. VENDOR	
02-ZX-2356	—	POSITION TRANSMITTER						BY DAMPER VENDOR	
02-ZI-2356	FOXBORO	POSITION INDICATOR							
02-FZ-2356	—	DAMPER OPERATOR						FURNISHED WITH DAMPER	
02-ZSO-2356A	—	POSITION SWITCH						↓	
02-ZSO-2354B	—	POSITION SWITCH						↓	

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
02-FV-2357	—	DAMPER					02-28-023	BY EQUIP. VENDOR	
02-E55-2357	GE	SELECTOR SWITCH						BY PANEL VENDOR	
02-250-2357	—	OPEN POSITION SWITCH						BY DAMPER VENDOR	
02-ZLD-2357	GE	PILOT LIGHT (AMBER)						BY PANEL VENDOR	
02-ZSC-2357	—	CLOSED POSITION SWITCH						BY DAMPER VENDOR	
02-ZLC-2357	GE	PILOT LIGHT (BLUE)						BY PANEL VENDOR	
02-FZ-2357	—	DAMPER OPERATOR						FURNISH WITH DAMPER	
02-SSL-2358	—	ZERO SPEED SWITCH						EQUIP. VENDOR FURNISHED	
02-SAL-2358	RIS	ZERO SPEED ALARM POINT							
02-SX-2359	—	SPEED TRANSMITTER						EQUIP. VENDOR FURNISHED	
02-SIC-2359	FOXBORO	SPEED INDICATING CONTROLLER						EQUIP. VENDOR FURNISHED	
02-SZ-2359	—	SPEED DRIVE							
02-SSL-2360	—	ZERO SPEED SWITCH						EQUIP. VENDOR FURNISHED	
02-SAL-2360	RIS	ZERO SPEED ALARM POINT							

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
02-SX-2361	—	SPEED TRANSMITTER					02-28-023	EQUIP. VENDOR FURNISHED	
02-SIC-2361	FOXBORO	SPEED INDICATING CONTROLLER							
02-SZ-2361	—	SPEED DRIVE						EQUIP. VENDOR FURNISHED	
02-SSL-2362	—	ZERO SPEED SWITCH						EQUIP. VENDOR FURNISHED	
02-SAL-2362	RIS	ZERO SPEED ALARM POINT							
02-SX-2363	—	SPEED TRANSMITTER						EQUIP. VENDOR FURNISHED	
02-SIC-2363	FOXBORO	SPEED INDICATING CONTROLLER							
02-SZ-2363	—	SPEED DRIVE						EQUIP. VENDOR FURNISHED	
02-SSL-2364	—	ZERO SPEED SWITCH						EQUIP. VENDOR FURNISHED	
02-SAL-2364	RIS	ZERO SPEED ALARM POINT							
02-SX-2365	—	SPEED TRANSMITTER						EQUIP. VENDOR FURNISHED	
02-SIC-2365	FOXBORO	SPEED INDICATING CONTROLLER							
02-SZ-2365	—	SPEED DRIVE						EQUIP. VENDOR FURNISHED	

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
02-SSL-2366	—	ZERO SPEED SWITCH					02-28-023	EQUIP. VENDOR FURNISHED	
02-SAL-2366	RIS	ZERO SPEED ALARM POINT							
02-LSH-2367	DREXELBROOK	HIGH LEVEL SWITCH							
02-LAH-2367	RIS	HIGH LEVEL ALARM POINT							
02-LSH-2368	DREXELBROOK	HIGH LEVEL SWITCH							
02-LAH-2368	RIS	HIGH LEVEL ALARM POINT							
02-LSH-2369	DREXELBROOK	HIGH LEVEL SWITCH							
02-LAH-2369	RIS	HIGH LEVEL ALARM POINT							
02-LSH-2370	DREXELBROOK	HIGH LEVEL SWITCH							
02-LAH-2370	RIS	HIGH LEVEL ALARM POINT							
02-SSL-2371	—	ZERO SPEED SWITCH						BY CONVEYOR VENDOR	
02-SAL-2371	RIS	ZERO SPEED ALARM POINT

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WESTBROOK, MAINE

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							02-28-023		
02-TX/TE-2372	FOXBORO	TEMP. TRANS. & ELEMENT							
02-TI-2372		TEMPERATURE INDICATOR							
02-TSL-2372		LOW TEMP SW. - REAR OF PANEL							
02-TAL-2372	RIS	LOW TEMP ALARM POINT							
02-PI-2373	HELICOID	LOCAL PRESSURE GAUGE							
02-PDIX-2374	FOXBORO	ΔP TRANS. W/LOCAL GAUGE							
02-PDI-2374		Δ PRESSURE INDICATOR							
02-PDIX-2375	FOXBORO	ΔP TRANSMITTER W/LOCAL GAUGE							
02-PDI-2375	FOXBORO	Δ PRESSURE INDICATOR							
02-PDAH-2375		HIGH ΔP SWITCH - REAR OF PANEL							
02-PDAH-2375	RIS	HIGH ΔP ALARM POINT							
02-PDIX-2376	FOXBORO	ΔP TRANS W/LOCAL GAUGE							
02-PDI-2376		Δ PRESSURE INDICATOR							

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF DWGS.	REMARKS OR DETAIL NO	RECEIVED
02-PDIX-2377	FOXBORO	ΔP TRANS. W/ LOCAL GAUGE					02-28-023		
02-PDI-2377	↓	Δ PRESSURE INDICATOR							
02-PDSH-2377	↓	HIGH ΔP SWITCH- REAR OF PANEL							
02-PDAH-2377	RIS	HIGH ΔP ALARM POINT							
02-PDIX-2378	FOXBORO	ΔP TRANS. W/ LOCAL GAUGE							
02-PDI-2378	↓	Δ PRESSURE INDICATOR							
02-PDIX-2379	FOXBORO	ΔP TRANS. W/ LOCAL GAUGE							
02-PDI-2379	↓	Δ PRESSURE INDICATOR							
02-PDSH-2379	↓	HIGH ΔP SWITCH- REAR OF PANEL							
02-PDAH-2379	RIS	HIGH ΔP ALARM POINT							
02-PDIX-2380	FOXBORO	ΔP TRANS. W/ LOCAL GAUGE							
02-PDI-2380	↓	Δ PRESSURE INDICATOR							
02-PDIX-2381	FOXBORO	ΔP SWITCH W/ LOCAL GAUGE							
02-PDI-2381	↓	Δ PRESSURE INDICATOR							
02-PDSH-2381	↓	HIGH ΔP SWITCH- REAR OF PANEL							
02-PDAH-2381	RIS	HIGH ΔP ALARM POINT

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03-TI-1200	DORIC	TEMPERATURE DATA LOGGER					03-26-Q12		
03-TE-1200-1	OMEGA	TEMP. ELEMENT						STM. TO SOOT BLOWERS (w/well)	
03-TE-1200-2		TEMP. ELEMENT						60" DRUM (w/well)	
03-TE-1200-3		TEMP. ELEMENT						REAR HEADER (w/well)	
03-TE-1200-4		TEMP. ELEMENT						FRONT HEADER (w/well)	
03-TE-1200-5		TEMP. ELEMENT						36" DRUM (w/well)	
03-TE-1200-6		TEMP. ELEMENT						FURNACE (NORTH WALL) (w/well)	
03-TE-1200-7		TEMP. ELEMENT						FURNACE (SOUTH WALL) (w/well)	
03-TE-1200-8		TEMP. ELEMENT						FURNACE (EAST WALL) (w/well)	
03-TE-1200-9		TEMP. ELEMENT						FURNACE (WEST WALL) (w/well)	
03-TE-1200-10		TEMP. ELEMENT						STOKER GRATE	
03-TE-1200-11		TEMP. ELEMENT						STOKER GRATE	
03-TE-1200-12		TEMP. ELEMENT						STOKER GRATE	
03-TE-1200-13		TEMP. ELEMENT						STOKER GRATE	
03-TE-1200-14		TEMP. ELEMENT						STOKER GRATE	
03-TE-1200-15		TEMP. ELEMENT						STOKER GRATE	
03-TE-1200-16		TEMP. ELEMENT						ECON. WATER INLET (w/well)	
03-TE-1200-17		TEMP. ELEMENT						ECON. WATER OUTLET (w/well)	
03-TE-1200-18		TEMP. ELEMENT						ECON. GAS INLET (w/well)	
03-TE-1200-19		TEMP. ELEMENT						ECON. GAS INLET (w/well)	
03-TE-1200-20		TEMP. ELEMENT						ECON. GAS INLET (w/well)	
03-TE-1200-21		TEMP. ELEMENT						ECON. GAS INLET (w/well)	
03-TE-1200-22		TEMP. ELEMENT						ECON. GAS OUTLET (w/well)	
03-TE-1200-23		TEMP. ELEMENT						ECON. GAS OUTLET (w/well)

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03-TE-1200-24	OMEGA	TEMP. ELEMENT					03-26-012	ECON. GAS OUTLET (w/well)	
03-TE-1200-25		TEMP. ELEMENT						ECON. GAS OUTLET (w/well)	
03-TE-1200-26		TEMP. ELEMENT						AIR HTR. GAS INLET (w/well)	
03-TE-1200-27		TEMP. ELEMENT						AIR HTR. GAS OUTLET (w/well)	
03-TE-1200-28		TEMP. ELEMENT						ETM. COIL AIR HTR. INLET (w/well)	
03-TE-1200-29		TEMP. ELEMENT						AIR GAS HTR. INLET (w/well)	
03-TE-1200-30		TEMP. ELEMENT						AIR GAS HTR. OUTLET (w/well)	
03-TE-1200-31	▼	TEMP. ELEMENT						50" STEAM HEADER (w/well)	
03-TE-1200-32	—	TEMP. ELEMENT	COPEX-VULCAN				▼	FURNISHED BY C.E.C.	
03-TE-1200-33	OMEGA	TEMP. ELEMENT					07-28-033	DEAERATOR STORAGE TANK. (w/well)	
03-TE-1200-34		TEMP. ELEMENT					07-28-033	FEEDWATER TO BOILER. (w/well)	
03-TE-1200-35		TEMP. ELEMENT					03-26-012	DESUPERHEATER INLET (w/well)	
03-TE-1200-36		TEMP. ELEMENT					03-26-012	DESUPERHEATER OUTLET (w/well)	
03-TE-1200-37		TEMP. ELEMENT					03-26-012	DESUPERHEATER WATER INLET (w/well)	
03-TE-1200-39		TEMP. ELEMENT					02-28-023	DR-0239A OUTLET (w/well)	
03-TE-1200-40		TEMP. ELEMENT					02-28-023	DR-0239A GAS INLET (w/well)	
03-TE-1200-42		TEMP. ELEMENT					02-28-023	DR-0239B OUTLET (w/well)	
03-TE-1200-43		TEMP. ELEMENT					02-28-023	DR-0239B GAS INLET (w/well)	
03-TE-1200-45		TEMP. ELEMENT					02-28-023	DR-0239C OUTLET (w/well)	
03-TE-1200-46		TEMP. ELEMENT					02-28-023	DR-0239C GAS INLET (w/well)	
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03-TE-1200-48	OMEGA	TEMP. ELEMENT					02-28-023	DR-0239 OUTLET (w/well)	
03-TE-1200-49		TEMP. ELEMENT					02-28-023	DR-0239 GAS INLET (w/well)	
03-TE-1200-50		TEMP. ELEMENT					04-28-028	TURBINE STM. INLET (w/well)	
03-TE-1200-51		TEMP. ELEMENT					04-28-029	TURBINE 560" STM. OUTLET (w/well)	
03-TE-1200-52		TEMP. ELEMENT					04-28-028	TURBINE 50" STM. OUTLET (w/well)	
03-TE-1200-53	↓	TEMP. ELEMENT					04-28-028	AFTER CONDENSER OUTLET (w/well)	
03-TE-1200-54	—	TEMP. ELEMENT					05-28-039	GEN. WINDINGS (FURNISHED BY BBC)	
03-TE-1200-55	—	TEMP. ELEMENT					05-28-039	GEN. WINDINGS (FURNISHED BY BBC)	
03-TE-1200-56	—	TEMP. ELEMENT					05-28-039	GEN. WINDINGS (FURNISHED BY BBC)	
03-TE-1200-57	—	TEMP. ELEMENT					05-28-039	GEN. WINDINGS (FURNISHED BY BBC)	
03-TE-1200-58	—	TEMP. ELEMENT					05-28-039	GEN. WINDINGS (FURNISHED BY BBC)	
03-TE-1200-59	—	TEMP. ELEMENT					05-28-039	GEN. WINDINGS (FURNISHED BY BBC)	
03-TE-1200-60	—	TEMP. ELEMENT					05-28-039	WARM AIR FROM GEN. COOLING. BY BBC (FURNISHED)	
03-TE-1200-61	—	TEMP. ELEMENT					05-28-039	COLD AIR TO GEN. COOLING. BY BBC (FURNISHED)	
03-TE-1200-62	—	TEMP. ELEMENT					05-28-039	COLD AIR TO GEN. COOLING. BY BBC (FURNISHED)	
03-TE-1200-63	OMEGA	TEMP. ELEMENT					05-28-039	COOLING H ₂ O TO GEN. (w/well)	
03-TE-1200-64		TEMP. ELEMENT					05-28-039	COOL. H ₂ O TO GEN. COOL. #1 (w/well)	
03-TE-1200-65		TEMP. ELEMENT					05-28-039	COOL. H ₂ O FROM GEN. COOL. #1 (w/well)	
03-TE-1200-66		TEMP. ELEMENT					05-28-039	COOL H ₂ O TO GEN. COOL. #2 (w/well)	
03-TE-1200-67		TEMP. ELEMENT					05-28-039	COOL. H ₂ O FROM GEN. COOL. #2 (w/well)	
03-TE-1200-68		TEMP. ELEMENT					05-28-039	COOL. H ₂ O TO GEN. COOL. #3 (w/well)	
03-TE-1200-69		TEMP. ELEMENT					05-28-039	COOL. H ₂ O FROM GEN. COOL. #3 (w/well)	
03-TE-1200-70	↓	TEMP. ELEMENT					05-28-039	COOL. H ₂ O TO GEN. COOL. #4 (w/well)	

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
							03-28-024		
03-SSL-2402	—	ZERO SPEED SWITCH						BY EQUIP. VENDOR	
03-SAL-2402	RIS	ZERO SPEED ALARM POINT							
03-SSL-2403	—	ZERO SPEED SWITCH						BY EQUIP. VENDOR	
03-SAL-2403	RIS	ZERO SPEED ALARM POINT							
03-SSL-2404	—	ZERO SPEED SWITCH						BY EQUIP. VENDOR	
03-SAL-2404	RIS	ZERO SPEED ALARM POINT							
03-LSH-2405	DREXELBROOK	LEVEL SWITCH (HIGH)							
03-LAH-2405	RIS	HIGH LEVEL ALARM POINT

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03-SSL-2406	—	ZERO SPEED SWITCH					03-28-024	BY EQUIP. VENDOR	
03-SAL-2406	RIS	ZERO SPEED ALARM POINT							
03-SSL-2407	—	ZERO SPEED SWITCH						BY EQUIP. VENDOR	
03-SAL-2407	RIS	ZERO SPEED ALARM POINT							
03-SSL-2408	—	ZERO SPEED SWITCH						BY EQUIP. VENDOR	
03-SAL-2408	RIS	ZERO SPEED ALARM POINT							
03-SSL-2409	—	ZERO SPEED SWITCH						BY EQUIP. VENDOR	
03-SAL-2409	RIS	ZERO SPEED ALARM POINT							
03-SSL-2410	—	ZERO SPEED SWITCH						BY EQUIP. VENDOR	
03-SAL-2410	RIS	ZERO SPEED ALARM POINT							
03-SSL-2411	—	ZERO SPEED SWITCH						BY EQUIP. VENDOR	
03-SAL-2411	RIS	ZERO SPEED ALARM POINT

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TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
03-LSH-2412	DREXELBROOK	HIGH LEVEL SWITCH					03-28-024		
03-LAH-2412	RIS	HIGH LEVEL ALARM POINT							
03-SSL-2413	—	ZERO SPEED SWITCH						BY EQUIP. VENDOR	
03-SAL-2413	RIS	ZERO SPEED ALARM POINT							
03-LSH-2414	DREXELBROOK	HIGH LEVEL SWITCH							
03-LAH-2414	RIS	HIGH LEVEL ALARM POINT							
03-LSH-2415	DREXELBROOK	HIGH LEVEL SWITCH							
03-LAH-2415	RIS	HIGH LEVEL ALARM POINT							
03-LSH-2416	DREXELBROOK	HIGH LEVEL SWITCH							
03-LAH-2416	RIS	HIGH LEVEL ALARM POINT							
03-LSH-2417	DREXELBROOK	HIGH LEVEL SWITCH							
03-LAH-2417	RIS	HIGH LEVEL ALARM POINT

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TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
03-LSH-2418	DREXELBROOK	HIGH LEVEL SWITCH					03-28-024		
03-LAH-2418	RIS	HIGH LEVEL ALARM POINT							
03-LSH-2419	DREXELBROOK	HIGH LEVEL SWITCH							
03-LAH-2419	RIS	HIGH LEVEL ALARM POINT							
03-LSH-2420	DREXELBROOK	HIGH LEVEL SWITCH							
03-LAH-2420	RIS	HIGH LEVEL ALARM POINT							
03-I/I-2421	FOXBORO	REAR OF PANEL CURRENT BOOSTER							
03-FFIC-2421	FOXBORO	FLOW RATIO CONTROLLER							
03-SIC-2421	FOXBORO	SPEED INDICATING CONTR.							
03-SZ-2421	—	SPEED DRIVE						BY EQUIP. VENDOR	
03-SX-2421	—	SPEED TRANSMITTER						↓	
03-SZ-2422	—	SPEED DRIVE						BY EQUIP. VENDOR	
03-SIC-2422	FOXBORO	SPEED INDICATING CONTR.							
03-SX-2422	—	SPEED TRANSMITTER						BY EQUIP. VENDOR	
03-FFIC-2422	FOXBORO	FLOW RATIO CONTROLLER							

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
03-SZ-2423	—	SPEED DRIVE					03-28-024	BY EQUIP. VENDOR	
03-SIC-2423	FOXBORO	SPEED INDICATING CONTROLLER							
03-SX-2423	—	SPEED TRANSMITTER						BY EQUIP. VENDOR	
03-FFIC-2423	FOXBORO	FLOW RATIO CONTROLLER							
03-I/I-2424	FOXBORO	REAR OF PANEL CURRENT BOOSTER							
03-SZ-2424	—	SPEED DRIVE						BY EQUIP. VENDOR	
03-SIC-2424	FOXBORO	SPEED INDICATING CONTROLLER							
03-SX-2424	—	SPEED TRANSMITTER						BY EQUIP. VENDOR	
03-FFIC-2424	FOXBORO	FLOW RATIO CONTROLLER							
03-SZ-2425	—	SPEED DRIVE						BY EQUIP. VENDOR	
03-SIC-2425	FOXBORO	SPEED INDICATING CONTROLLER							
03-SX-2425	—	SPEED TRANSMITTER						BY EQUIP. VENDOR	
03-FFIC-2425	FOXBORO	FLOW RATIO CONTROLLER							
03-SZ-2426	—	SPEED DRIVE						BY EQUIP. VENDOR	
03-SIC-2426	FOXBORO	SPEED INDICATING CONTROLLER							
03-SX-2426	—	SPEED TRANSMITTER						BY EQUIP. VENDOR	
03-FFIC-2426	FOXBORO	FLOW RATIO CONTROLLER

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03-PSV-2600	KROSBY	PRESSURE SAFETY VALVE					03-28-026	BY EQUIPMENT VENDOR	
03-PI-2601	FOXBORO	PRESSURE INDICATOR							
03-PX-2601	↓	PRESSURE TRANSMITTER							
03-TI-2602	FOXBORO	TEMP. INDICATOR							
03-TX-2602	↓	TEMP. TRANSMITTER							
03-TI-2603	ASHCROFT	LOCAL TEMP. INDICATOR							
03-ZE-2604	—	POSITION ELEMENT						FURNISHED BY BOILER SUPPLIER	
03-ZI-2604	—	POSITION INDICATOR						↓	

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
03-PSH-2605	—	HIGH PRESSURE SWITCH					03-28-026	FURNISHED BY BOILER SUPPLIER	
03-PAH-2605	RIS	HIGH PRESSURE ALARM POINT							
								FURNISHED BY BOILER SUPPLIER	
								FURNISHED BY BOILER SUPPLIER	
03-PX-2608	FOXBORO	PRESSURE TRANSMITTER							
03-PI-2608	↓	PRESSURE INDICATOR							
03-TV-2609	MASONEILAN	TEMP. CONTROL VALVE							
03-TX-2609A	FOXBORO	TEMP. TRANSMITTER							
03-TX-2609B	↓	TEMP. TRANSMITTER							
03-I/P-2609	MASONEILAN	TRANSDUCER							
03-TIC 2609A	FOXBORO	TEMP. INDICATING CONTROLLER						FURNISHED BY BOILER SUPPLIER	
03-TIC-2609B	FOXBORO	TEMP. INDICATING CONTROLLER

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03-VSH-2610	—	HIGH VIBRATION SWITCH					03-28-026	BY EQUIP. VENDOR	
03-VAH-2610	RIS	HIGH VIBRATION ALARM POINT							
03-QA-2611	RIS	MOTOR SHUTDOWN ALARM							
03-FV-2612	—	DAMPER						FURNISHED BY EQUIPMENT SUPPLIER	
03-TX-2613	FOXBORO	TEMP. TRANSMITTER							
03-TI-2613	FOXBORO	TEMP. INDICATOR							
03-FIC-2614		FLOW INDICATING CONTROLLER							
03-FYB-2614		✓ EXTRACTOR							
03-FX-2614	↓	FLOW TRANSMITTER							
03-FV-2614	—	DAMPER						BY EQUIP. VENDOR	
03-I/P-2614	MASONEILAN	TRANSDUCER							
03-FE-2614	ELLISON	FLOW ELEMENT							
03-FE-2615	ELLISON	ANNUBAR							
03-FX-2615	FOXBORO	FLOW TRANSMITTER							
03-FYB-2615		✓ EXTRACTOR							
03-FI-2615	↓	FLOW INDICATOR							

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
03-PDSL-2616	————	LOW DIFF. PRESSURE SWITCH					03-28-026	BY EQUIP. VENDOR	
03-AE-2617	WESTINGHOUSE	OXYGEN ANALYZING ELEMENT							
03-AX-2617	↓	OXYGEN ANALYZING TRANSMITTER							
03-AIC-2617	FOXBORO	OXYGEN INDICATOR CONTROLLER							
03-I/I-2617A	↓	REAR OF PANEL CURRENT BOOSTER							
03-I/I-2617B	↓	↓							
03-PX-2618	FOXBORO	PRESSURE TRANSMITTER							
03-PI-2618	↓	PRESSURE INDICATOR							
03-AX-2619	ENVIRON. DATA	CO ANALYZING TRANSMITTER							
03-AI-2619	FOXBORO	CO INDICATOR							
03-AE-2619	ENVIRON. DATA	CO ANALYZING ELEMENT							

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
03-PX-2620	FOXBORO	PRESSURE TRANSMITTER					03-28-026		
03-PI-2620	↓	PRESSURE INDICATOR							
03-TI-2621	ASHCROFT	LOCAL TEMP. INDICATOR							
03-TI-2622	ASHCROFT	LOCAL TEMP. INDICATOR							
03-TI-2623	ASHCROFT	LOCAL TEMP. INDICATOR							
03-PI-2625	HELICOID	PRESS. GAUGE							
03-PX-2626	FOXBORO	PRESSURE TRANSMITTER							
03-PI-2626	FOXBORO	PRESS. IND. CONTROLLER							
03-I/P-2626	MASONNEILAN	TRANSDUCER							
03-PV-2626	—	DAMPER						BY EQUIP. VENDOR	
03-PI-2627	HELICOID	PRESS. GAUGE						W/ SYPHON	

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
03-TI-2628	ASHCROFT	TEMP. INDICATOR					03-28-026		
03-PSL-2629	—	LOW PRESS. SWITCH						FURNISHED BY EQUIPMENT SUPPLIER	
03-VSH-2630	—	HIGH VIBRATION SWITCH						BY EQUIPMENT VENDOR	
03-VAH-2630	RIS	HIGH VIBRATION ALARM POINT							
03-QA-2631	RIS	MOTOR SHUTDOWN ALARM POINT							
03-FV-2632	—	DAMPER						FURNISHED BY EQUIPMENT SUPPLIER	
03-PX-2633	FOXBORO	PRESS. TRANSMITTER							
03-PI-2633	↓	PRESSURE INDICATOR							
03-PSL-2633	↓	REAR OF PANEL LOW PRESS. SWITCH							
03-PAL-2633	RIS	ALARM POINT							
03-SX-2634	—	SPEED TRANSMITTER						BY EQUIP. VENDOR	
03-SI-2634	FOXBORO	SPEED INDICATOR							

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
03-TX-2635	FOXBORO	TEMP. TRANSMITTER					03-28-026		
03-TI-2635	FOXBORO	TEMP. INDICATOR							
03-FV-2636	—	FLOW CONTROL VALVE						BY EQUIP. VENDOR	
03-EV-2636	—	SOLENOID VALVE						↓	
03-PI-2637	—	PRESSURE INDICATOR (LOCAL)						BY EQUIP. VENDOR	
03-FE-2638	ELLISON	FLOW ELEMENT							
03-FX-2638	FOXBORO	TRANSMITTER (FLOW)							
03-FYB-2638	↓	✓ EXTRACTOR							
03-FI-2638	↓	INDICATOR (FLOW)							
03-FIR-2638	WET	FLOW REGULATOR							
03-PX-2639	—	PRESSURE TRANSMITTER						BY EQUIP. VENDOR	
03-PI-2639	FOXBORO	PRESSURE INDICATOR							
03-TX-2640	FOXBORO	TEMP. TRANSMITTER							
03-TI-2640	↓	TEMP. INDICATOR

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TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
03-PI-2700	HELICOID	PRESSURE GAUGE					03-28-027		
03-PRV-2701	MASONEILAN	PRESSURE REDUCING VALVE							
03-PX-2702	FOXBORO	PRESSURE TRANSMITTER							
03-PI-2702	FOXBORO	PRESSURE INDICATOR							
03-TX-2703	FOXBORO	TEMP. TRANSMITTER							
03-TIC-2703	↓	TEMP. IND. CONTROLLER							
03-LI-2704	—	LEVEL GAUGE						FURNISHED BY BOILER SUPPLIER	
03-LIC-2705	FOXBORO	LEVEL INDICATING CONTROLLER							
03-LX-2705	FOXBORO	LEVEL TRANSMITTER							
03-LSL-2705	↓	REAR OF PANEL LOW LEVEL SWITCH							
03-LAL-2705	RIS	LOW LEVEL ALARM POINT							
03-LSH-2705	FOXBORO	REAR OF PANEL HIGH LEVEL SWITCH							
03-LAH-2705	RIS	HIGH LEVEL ALARM POINT

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							03-28-027		
03-PSV-2706	—	SAFETY RELIEF VALVE						FURNISHED BY BOILER SUPPLIER	
03-PI-2707	—	PRESSURE INDICATOR						FURNISHED BY BOILER SUPPLIER	
03-PSV-2708	—	SAFETY RELIEF VALVE						FURNISHED BY BOILER SUPPLIER	
03-PSL-2709	ASCO TRI-POINT	LOW PRESSURE SWITCH							
03-PAL-2709	RIS	LOW PRESSURE ALARM POINT							
03-FE-2710	DANIEL	FLOW ELEMENT							
03-FX-2710	FOXBORO	FLOW TRANSMITTER							
03-FYB-2710		SQ. RT. EXTRACTOR							
03-FIC-2710	↓	FLOW INDICATING CONTROLLER							
03-FSL-2710	FOXBORO	REAR OF PANEL LOW FLOW SWITCH							
03-FAL-2710	RIS	LOW FLOW ALARM POINT							
03-I/P-2710	MASONEILAN	TRANSDUCER							
03-FV-2710	↓	FLOW CONTROL VALVE							

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
03-PI-2711	HELICOID	LOCAL PRESSURE GAUGE					03-28-027		
03-PI-2712	HELICOID	LOCAL PRESSURE GAUGE							
03-PI-2713	HELICOID	LOCAL PRESSURE GAUGE							
03-FE-2714	DANIEL	ORIFICE PLATE							
03-FYB-2714	FOXBORO	SQ. RT. EXTRACTOR							
03-FI-2714	↓	FLOW INDICATOR							
03-FX-2714	↓	FLOW TRANSMITTER							
03-PI-2715	HELICOID	LOCAL PRESSURE GAUGE						WITH SYPHON	
03-TX-2716	FOXBORO	TEMP. TRANSMITTER							
03-TIC-2716	↓	TEMP. INDICATING CONTROLLER							
03-I/P-2716	MASONEILAN	TRANSDUCER							
03-TV-2716	↓	TEMP. CONTROL VALVE

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
03-LIS-2717A	—	LEVEL INDICATING SWITCH					03-28-027	FURNISHED BY BOILER SUPPLIER	
03-LALL-2717	RIS	LOW-LOW LEVEL ALARM POINT							
03-LAHH-2717	RIS	HIGH-HIGH LEVEL ALARM POINT							
03-LIS-2717B	—	LEVEL INDICATING SWITCH						BY BOILER VENDOR	
03-LI-2718	—	LEVEL GAUGE						FURNISHED BY BOILER SUPPLIER	
03-LG-2719	—	LEVEL GAUGE						FURNISHED BY BOILER SUPPLIER REMOTE MOUNT	
03-LG-2720	—	LEVEL GAUGE						FURNISHED BY BOILER SUPPLIER REMOTE MOUNT	
03-PSV-2721	—	SAFETY RELIEF VALVE						FURNISHED BY BOILER SUPPLIER	
03-PSV-2722	—	SAFETY RELIEF VALVE						FURNISHED BY BOILER SUPPLIER	
03-TI-2723	—	LOCAL TEMP. INDICATOR						FURNISHED BY BOILER SUPPLIER	
03-FE-2724	DANIEL	FLOW ELEMENT							
03-FX-2724	FOXBORO	FLOW TRANSMITTER							
03-FYB-2724	↓	SQ. RT. EXTRACTOR							

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
03-PI-2725	HELICOID	LOCAL PRESSURE GAUGE					03-28-027	WITH SYPHON	
03-PX-2726	FOXBORO	PRESSURE TRANSMITTER						WITH SYPHON	
03-PSL-2726	↓	REAR OF PANEL LOW PRESS. SWITCH							
03-PAL-2726	RIS	LOW PRESS. ALARM							
03-PI-2727	—	PRESSURE GAUGE						FURNISHED BY BOILER SUPPLIER	
03-QA-2728	RIS	BOILER SAFEGUARD SYSTEM ALARM POINT							
03-PI-2729	HELICOID	LOCAL PRESSURE GAUGE							
03-PSH-2730	—	HIGH PRESSURE SWITCH						FURNISHED BY BOILER SUPPLIER	
03-PSV-2730	—	PRESSURE SAFETY RELIEF VALVE						FURNISHED BY BOILER SUPPLIER	
03-PSH-2731	—	HIGH PRESSURE SWITCH						FURNISHED BY BOILER SUPPLIER	
03-PSV-2731	—	PRESSURE SAFETY RELIEF VALVE						FURNISHED BY BOILER SUPPLIER	

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
03-PI-3700	HELICOID	LOCAL PRESSURE GAUGE					03-28-037	WITH DIAPHRAGM SEAL	
03-ZSC-3701A	—	CLOSED POSITION SWITCH						BY VALVE VENDOR	
03-ZSO-3701A	—	OPEN " "						↓	
03-ZLC-3701A	GE	PILOT LIGHT (BLUE)						BY PANEL VENDOR	
03-ZLO-3701A	GE	" " (AMBER)						↓	
03-ZSC-3701B	—	CLOSED POSITION SWITCH						BY VALVE VENDOR	
03-ZSO-3701B	—	OPEN " "						↓	
03-ZLC-3701B	GE	PILOT LIGHT (BLUE)						BY PANEL VENDOR	
03-ZLO-3701B	GE	" " (AMBER)						↓	
03-ZSC-3701C	—	CLOSED POSITION SWITCH						BY VALVE VENDOR	
03-ZSO-3701C	—	OPEN " "						↓	
03-ZLC-3701C	GE	PILOT LIGHT (BLUE)						BY PANEL VENDOR	
03-ZLO-3701C	GE	" " (AMBER)						↓	
03-ZSC-3701D	—	CLOSED POSITION SWITCH						BY VALVE VENDOR	
03-ZSO-3701D	—	OPEN " "						↓	
03-ZLC-3701D	GE	PILOT LIGHT (BLUE)						BY PANEL VENDOR	
03-ZLO-3701D	GE	" " (AMBER)						↓	
03-ZSC-3701E	—	CLOSED POSITION SWITCH						BY VALVE VENDOR	
03-ZSO-3701E	—	OPEN " "						↓

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TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
							03-28-037		
03-PRV-3703A	MASONEILAN	CONTROL VALVE							
03-PRV-3703B	MASONEILAN	CONTROL VALVE							
03-PRV-3703C	MASONEILAN	CONTROL VALVE							
03-PRV-3703D	MASONEILAN	CONTROL VALVE							
03-PRV-3703E	MASONEILAN	CONTROL VALVE							
03-PRV-3703F	MASONEILAN	CONTROL VALVE							
03-PRV-3703G	MASONEILAN	CONTROL VALVE							
03-PRV-3703H	MASONEILAN	CONTROL VALVE							

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
03-FV-3704A	—	FLOW CONTROL VALVE					03-28-037	BY BOILER VENDOR	
B	—								
C	—								
D	—								
E	—								
F	—								
G	—								
H	—								
03-EV-3704A	—	SOLENOID VALVE						BY BOILER VENDOR	
B	—								
C	—								
D	—								
E	—								
F	—								
G	—								
H	—								

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03-FV-3705A		—	FLOW CONTROL VALVE						03-28-037	BY BOILER VENDOR		
	B	—										
	C	—										
	D	—										
	E	—										
	F	—										
	G	—										
	H	—										
	I	—										
	J	—										
	K	—										
	L	—										
	M	—										
	N	—										
	P	—										
	Q	—										
03-EV-3705A		—	SOLENOID VALVE							BY BOILER VENDOR		
	B	—										
	C	—										
	D	—										
	E	—										
	F	—										
	G	—

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TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
03-EV-3705H	—	SOLENOID VALVE					03-28-037	BY BOILER VENDOR	
	I								
	J								
	K								
	L								
	M								
	N								
	P								
	Q								
03-750-3705A	—	OPEN POSITION SWITCH						BY BOILER VENDOR	
	B								
	C								
	D								
	E								
	F								
	G								
	H								
	I								
	J								
	K								
	L								
	M								
	N

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TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
03-250-3705P	—	OPEN POSITION SWITCH					03-28-037	BY BOILER VENDOR	
↓ Q	—	↓						↓	
03-210-3705A	GE	PILOT LIGHT (AMBER)						BY PANEL VENDOR	
B	—								
C	—								
D	—								
E	—								
F	—								
G	—								
H	—								
I	—								
J	—								
K	—								
L	—								
M	—								
N	—								
P	—								
↓ Q	↓	↓						↓	
03-250-3705A	—	CLOSED POSITION SWITCH						BY BOILER VENDOR	
B	—								
C	—								
↓ D	—	↓					↓	↓

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TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF DWGS.	REMARKS OR DETAIL NO	RECEIVED
03-ZSC-3705E	—	CLOSED POSITION SWITCH					03-28-037	BY BOILER VENDOR	
	F								
	G								
	H								
	I								
	J								
	K								
	L								
	M								
	N								
	P								
	Q								
03-ZLC-3705A	GE	PILOT LIGHT (BLUE)						BY PANEL VENDOR	
	B								
	C								
	D								
	E								
	F								
	G								
	H								
	I								
	J								
	K

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TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
03-PI-3706	FOXBORO	PRESSURE INDICATOR					03-28-037		
03-PX-3706	↓	PRESS. TRANSMITTER						WINDBOX DRAFT	
03-HZ-3707	—	PNEUMATIC OPERATOR						FURNISHED BY EQUIP. SUPPLIER	
03-EV-3707	—	SOLENOID VALVE						FURNISHED BY EQUIP. SUPPLIER	
03-PI-3708	HELICOID	PRESSURE GAUGE						WITH DIAPHRAGM SEAL	
03-PI-3709	HELICOID	PRESSURE GAUGE						WITH SYPHON	
03-HZ-3710	—	PNEUMATIC OPERATOR						FURNISHED BY EQUIP. SUPPLIER	
03-EV-3710	—	SOLENOID VALVE						FURNISHED BY EQUIP. SUPPLIER	
03-HZ-3711C	—	PNEUMATIC OPERATOR						FURNISHED BY EQUIP. SUPPLIER	
03-HZ-3711A	—	PNEUMATIC OPERATOR						FURNISHED BY EQUIP. SUPPLIER	
03-I/P-3711A	—	TRANSDUCER						FURNISHED BY EQUIP. SUPPLIER	
03-HIC-3711	FOXBORO	MANUAL CONTROLLER							
03-I/P-3711B	—	TRANSDUCER						FURNISHED BY EQUIP. SUPPLIER	
03-HZ-3711B	—	PNEUMATIC OPERATOR						FURNISHED BY EQUIP. SUPPLIER	
03-HZ-3711D	—	PNEUMATIC OPERATOR						↓	
03-PX-3712	FOXBORO	PRESS. TRANSMITTER							
03-PI-3712	↓	PRESSURE INDICATOR						WINDBOX DRAFT	
03-PI-3713	HELICOID	PRESSURE GAUGE						WITH DIAPHRAGM SEAL

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03-PI-3714	HELICOID	PRESSURE GAUGE					03-28-037	(WITH SYPHON)	
03-HZ-3715	—	PNEUMATIC OPERATOR						FURNISHED BY EQUIP. SUPPLIER	
03-EV-3715	—	SOLENOID VALVE						FURNISHED BY EQUIP. SUPPLIER	
03-PI-3716	HELICOID	PRESSURE GAUGE						WITH DIAPHRAGM SEAL	
03-PI-3717	HELICOID	PRESSURE GAUGE						WITH SYPHON	
03-HZ-3718	—	PNEUMATIC OPERATOR						SUPPLIED BY EQUIP. SUPPLIER	
03-EV-3718	—	SOLENOID VALVE						SUPPLIED BY EQUIP. SUPPLIER	
03-PI-3719	HELICOID	PRESSURE GAUGE						WITH SYPHON	
03-BM-3720	—	BURNER MONITOR						FURNISHED BY EQUIP. SUPPLIER	
03-BM-3721	—	BURNER MONITOR						FURNISHED BY EQUIP. SUPPLIER	
03-FE-3722	DANIEL	ORIFICE PLATE							
03-FX-3722	FOXBORO	FLOW TRANSMITTER							
03-FYB-3722A	↓	SQ. RT. EXTRACTOR							
03-FIC-3722	↓	FLOW INDICATING CONTROLLER

The Rust Engineering Company

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TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
03-FYB-3722B	FOXBORO	HI SELECT RELAY					03-28-037		
03-FYB-3722C	FOXBORO	LO SELECT RELAY							
03-FSL-3722	FOXBORO	LOW FLOW SWITCH							
03-FAL-3722	RIS	LOW FLOW ALARM POINT							
03-I/P-3722	MASONEILAN	TRANSDUCER							
03-FV-3722	↓	FLOW CONTROL VALVE							
03-PIC-3723	FOXBORO	LOCAL PRESSURE INDICATING CONTROLLER						WITH DIAPHRAGM SEAL (LOCAL MTD.)	
03-PV-3723	↓	PRESSURE CONTROL VALVE							
03-EV-3726	—	SOLENOID VALVE						FURNISHED BY EQUIP. SUPPLIER	
03-FV-3726	—	FLOW CONTROL VALVE						FURNISHED BY EQUIP. SUPPLIER	
03-ZLG-3726	GE	PILOT LIGHT (BLUE)					↓	BY CONTROL PANEL VENDOR

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TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
03-ZSC-3726	—	CLOSED POSITION SWITCH					03-28-037	SUPPLIED BY EQUIP. SUPPLIER	
03-ZLO-3726	GE	PILOT LIGHT (AMBER)							
03-ZSO-3726	—	OPEN POSITION SWITCH						SUPPLIED BY EQUIP. SUPPLIER	
03-PI-3727	HELICOID	PRESSURE GAUGE						WITH DIAPHRAGM SEAL	
03-TI-3728	ASHCROFT	TEMP. INDICATOR						WITH WELL	
03-PSL-3729	—	LOW PRESSURE SWITCH						BY BOILER VENDOR; WITH DIAPHRAGM SEAL	
03-PAL-3729	RIS	LOW PRESSURE ALARM							
03-TSH-3730	—	HIGH-LOW TEMPERATURE SWITCH						BY BOILER VENDOR; WITH WELL	
03-TAL-3730	RIS	LOW TEMP. ALARM POINT							
03-TAH-3730	RIS	HIGH TEMP. ALARM							
03-PI-3731	HELICOID	PRESSURE GAUGE						WITH SYPHON	
03-PSL-3733	—	LOW PRESSURE SWITCH						WITH SYPHON; FURNISHED BY EQUIP. SUPPLIER	
03-PAL-3733	RIS	LOW PRESSURE ALARM POINT

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03-FV-3734	—	MOTORIZED FLOW CONTROL VALVE					03-28-037	SUPPLIED BY EQUIP. VENDOR	
03-ZSO-3734	—	OPEN POSITION SWITCH						SUPPLIED BY EQUIP. VENDOR	
03-ZLO-3734	GE	PILOT LIGHT (AMBER)						BY CONTROL PANEL VENDOR	
03-ZSC-3734	—	CLOSED POSITION SWITCH						SUPPLIED BY EQUIP. VENDOR	
03-ZLC-3734	GE	PILOT LIGHT (BLUE)						BY CONTROL PANEL VENDOR	
03-RD-3735	DANIEL	RESTRICTION ORIFICE							
03-PI-3736	HELICOID	PRESSURE GAUGE						WITH DIAPHRAGM SEAL	
03-TI-3737	ASHCROFT	TEMP. INDICATOR						WITH WELL	
03-PI-3738	HELICOID	PRESS. GAUGE						WITH DIAPHRAGM SEAL	
03-PI-3739	FOXBORO	PRESSURE INDICATOR						WINDBOX DRAFT	
03-PX-3739	↓	PROSS. TRANSMITTER							
03-EV-3740	—	SOLENOID VALVE						SUPPLIED BY EQUIP. SUPPLIER	
03-HZ-3740	—	PNEUMATIC OPERATOR						SUPPLIED BY EQUIP. SUPPLIER	
03-PI-3741	HELICOID	PRESSURE GAUGE						WITH SYPHON	
03-PI-3742	HELICOID	PRESSURE GAUGE						WITH DIAPHRAGM SEAL

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03-EV-3743	—	SOLENOID VALVE					03-28-037	SUPPLIED BY EQUIP. SUPPLIER	
03-HZ-3743	—	PNEUMATIC OPERATOR						SUPPLIED BY EQUIP. SUPPLIER	
03-PI-3744	FOXBORO	PRESSURE INDICATOR						WINDBOX DRAFT	
03-PX-3744	↓	PRESS. TRANSMITTER							
03-PI-3745	HELICOID	PRESSURE GAUGE						WITH DIAPHRAGM SEAL	
03-PI-3746	HELICOID	PRESSURE GAUGE						WITH SIPHON	
03-EV-3747	—	SOLENOID VALVE						SUPPLIED BY EQUIP. SUPPLIER	
03-HZ-3747	—	PNEUMATIC OPERATOR						SUPPLIED BY EQUIP. SUPPLIER	
03-PI-3748	HELICOID	PRESSURE GAUGE						WITH DIAPHRAGM SEAL	
03-PI-3749	HELICOID	PRESSURE GAUGE						WITH SIPHON	
03-EV-3750	—	SOLENOID VALVE						SUPPLIED BY EQUIP. SUPPLIER	
03-HZ-3750	—	PNEUMATIC OPERATOR						SUPPLIED BY EQUIP. SUPPLIER	
03-PI-3751	HELICOID	PRESSURE GAUGE						WITH SIPHON	
03-I/I-3752A	FOXBORO	CURRENT BOOSTER					↓

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03-HIC-3752A	FOXBORO	MANUAL LOADING STATION					03-28-037		
03-HIC-3752B	FOXBORO	MANUAL LOADING STATION							
03-FV-3752A	—	DAMPER						SUPPLIED BY EQUIP. SUPPLIER	
03-I/P-3752A	MASONEILAN	TRANSDUCER							
03-FV-3752B	—	DAMPER						SUPPLIED BY EQUIP. SUPPLIER	
03-I/P-3752B	MASONEILAN	TRANSDUCER							
03-FV-3752C	—	DAMPER						SUPPLIED BY EQUIP. SUPPLIER	
03-I/P-3752C	MASONEILAN	TRANSDUCER							
03-FV-3752D	—	DAMPER						SUPPLIED BY EQUIP. SUPPLIER	
03-I/P-3752D	MASONEILAN	TRANSDUCER							
03-FV-3752E	—	DAMPER						SUPPLIED BY EQUIP. SUPPLIER	
03-I/P-3752E	MASONEILAN	TRANSDUCER							
03-FV-3752F	—	DAMPER						SUPPLIED BY EQUIP. SUPPLIER	
03-I/P-3752F	MASONEILAN	TRANSDUCER							
03-FV-3752G	—	DAMPER						SUPPLIED BY EQUIP. SUPPLIER	
03-I/P-3752G	MASONEILAN	TRANSDUCER							
03-FV-3752H	—	DAMPER						SUPPLIED BY EQUIP. SUPPLIER	
03-I/P-3752H	MASONEILAN	TRANSDUCER							
03-FV-3752I	—	DAMPER						SUPPLIED BY EQUIP. SUPPLIER	
03-I/P-3752I	MASONEILAN	TRANSDUCER							
03-FV-3752J	—	DAMPER						SUPPLIED BY EQUIP. SUPPLIER	
03-I/P-3752J	MASONEILAN	TRANSDUCER							
03-I/I-3752B	FOXBORO	CURRENT BOOSTER							
03-I/I-3752C	↓	↓					↓

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03-FV-3753A	—	DAMPER					03-28-037	SUPPLIED BY EQUIP. SUPPLIER	
03-I/P-3753A	MASONEILAN	TRANSDUCER							
03-FV-3753B	—	DAMPER						SUPPLIED BY EQUIP. SUPPLIER	
03-I/P-3753B	MASONEILAN	TRANSDUCER							
03-FV-3753C	—	DAMPER						SUPPLIED BY EQUIP. SUPPLIER	
03-I/P-3753C	MASONEILAN	TRANSDUCER							
03-FV-3753D	—	DAMPER						SUPPLIED BY EQUIP. SUPPLIER	
03-I/P-3753D	MASONEILAN	TRANSDUCER							
03-FV-3753E	—	DAMPER						SUPPLIED BY EQUIP. SUPPLIER	
03-I/P-3753E	MASONEILAN	TRANSDUCER							
03-FV-3753F	—	DAMPER						SUPPLIED BY EQUIP. SUPPLIER	
03-I/P-3753F	MASONEILAN	TRANSDUCER							
03-FV-3753G	—	DAMPER						SUPPLIED BY EQUIP. SUPPLIER	
03-I/P-3753G	MASONEILAN	TRANSDUCER							
03-FV-3753H	—	DAMPER						SUPPLIED BY EQUIP. SUPPLIER	
03-I/P-3753H	MASONEILAN	TRANSDUCER							
03-FV-3753I	—	DAMPER						SUPPLIED BY EQUIP. SUPPLIER	
03-I/P-3753I	MASONEILAN	TRANSDUCER							
03-FV-3753J	—	DAMPER						SUPPLIED BY EQUIP. SUPPLIER	
03-I/P-3753J	MASONEILAN	TRANSDUCER							
03-I/I-3753A	FOXBORO	CURRENT BOOSTER							
03-I/I-3753B	FOXBORO	CURRENT BOOSTER

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03-FV-3754A	—	DAMPER					03-28-037	SUPPLIED BY EQUIP. SUPPLIER	
03-IP-3754A	MASONEILAN	TRANSDUCER							
03-FV-3754B	—	DAMPER						SUPPLIED BY EQUIP. SUPPLIER	
03-IP-3754B	MASONEILAN	TRANSDUCER							
03-FV-3754C	—	DAMPER						SUPPLIED BY EQUIP. SUPPLIER	
03-IP-3754C	MASONEILAN	TRANSDUCER							
03-FV-3754D	—	DAMPER						SUPPLIED BY EQUIP. SUPPLIER	
03-IP-3754D	MASONEILAN	TRANSDUCER							
03-FV-3754E	—	DAMPER						SUPPLIED BY EQUIP. SUPPLIER	
03-IP-3754E	MASONEILAN	TRANSDUCER							
03-FV-3754F	—	DAMPER						SUPPLIED BY EQUIP. SUPPLIER	
03-IP-3754F	MASONEILAN	TRANSDUCER							
03-FV-3754G	—	DAMPER						SUPPLIED BY EQUIP. SUPPLIER	
03-IP-3754G	MASONEILAN	TRANSDUCER							
03-FV-3754H	—	DAMPER						SUPPLIED BY EQUIP. SUPPLIER	
03-IP-3754H	MASONEILAN	TRANSDUCER							
03-FV-3754I	—	DAMPER						SUPPLIED BY EQUIP. SUPPLIER	
03-IP-3754I	MASONEILAN	TRANSDUCER							
03-FV-3754J	—	DAMPER						SUPPLIED BY EQUIP. SUPPLIER	
03-IP-3754J	MASONEILAN	TRANSDUCER							
03-II-3754A	FOXBORO	CURRENT BOOSTER							
03-II-3754B	↓	↓

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03-FV-3755A	—	DAMPER					03-28-037	SUPPLIED BY EQUIP. SUPPLIER	
03-I/P-3755A	MASONEILAN	TRANSDUCER							
03-FV-3755B	—	DAMPER						SUPPLIED BY EQUIP. SUPPLIER	
03-I/P-3755B	MASONEILAN	TRANSDUCER							
03-FV-3755C	—	DAMPER						SUPPLIED BY EQUIP. SUPPLIER	
03-I/P-3755C	MASONEILAN	TRANSDUCER							
03-FV-3755D	—	DAMPER						SUPPLIED BY EQUIP. SUPPLIER	
03-I/P-3755D	MASONEILAN	TRANSDUCER							
03-FV-3755E	—	DAMPER						SUPPLIED BY EQUIP. SUPPLIER	
03-I/P-3755E	MASONEILAN	TRANSDUCER							
03-FV-3755F	—	DAMPER						SUPPLIED BY EQUIP. SUPPLIER	
03-I/P-3755F	MASONEILAN	TRANSDUCER							
03-FV-3755G	—	DAMPER						SUPPLIED BY EQUIP. SUPPLIER	
03-I/P-3755G	MASONEILAN	TRANSDUCER							
03-FV-3755H	—	DAMPER						SUPPLIED BY EQUIP. SUPPLIER	
03-I/P-3755H	MASONEILAN	TRANSDUCER							
03-FV-3755I	—	DAMPER						SUPPLIED BY EQUIP. SUPPLIER	
03-I/P-3755I	MASONEILAN	TRANSDUCER							
03-FV-3755J	—	DAMPER						SUPPLIED BY EQUIP. SUPPLIER	
03-I/P-3755J	MASONEILAN	TRANSDUCER							
03-I/I-3755A	FOXBORO	CURRENT BOOSTER							
03-I/I-3755B	↓	↓							

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TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF DWGS.	REMARKS OR DETAIL NO	RECEIVED
03-BM-3757	—	FLAME SCANNER					03-28-037	SUPPLIED BY EQUIP. SUPPLIER	
03-BM-3758	—	FLAME SCANNER						SUPPLIED BY EQUIP. SUPPLIER	
03-BM-3759	—	FLAME SCANNER						SUPPLIED BY EQUIP. SUPPLIER	
03-BM-3760	—	FLAME SCANNER						SUPPLIED BY EQUIP. SUPPLIER	
03-BM-3761	—	FLAME SCANNER						SUPPLIED BY EQUIP. SUPPLIER	
03-BM-3762	—	FLAME SCANNER						SUPPLIED BY EQUIP. SUPPLIER	
03-BM-3763	—	FLAME SCANNER						SUPPLIED BY EQUIP. SUPPLIER	
03-BM-3764	—	FLAME SCANNER						SUPPLIED BY EQUIP. SUPPLIER	
03-TI-3765	ASHCROFT	LOCAL TEMPERATURE INDICATOR							
03-TI-3766									
03-TI-3767									
03-TI-3768									
03-TI-3769									
03-TI-3770									
03-TI-3771									
03-TI-3772

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TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
03-PRV-3800	MASONEILAN	PRESSURE CONTROL VALVE					03-28-038		
03-LG-3801	JERGUSON	LEVEL GAUGE							
03-LSL-3802	E+H	LOW LEVEL SWITCH							
03-LAL-3802	RIS	LOW LEVEL ALARM POINT							
03-PSV-3803	CROSBY	SAFETY RELIEF VALVE							
03-PSV-3804	CROSBY	SAFETY RELIEF VALVE							
03-LG-3805	JERGUSON	LEVEL GAUGE							
03-LSL-3806	E+H	LOW LEVEL SWITCH							
03-LAL-3806	RIS	LOW LEVEL ALARM POINT

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03-PSV-3807	CROSBY	SAFETY RELIEF VALVE					03-28-038		
03-PSV-3808	CROSBY	SAFETY RELIEF VALVE							
03-LG-3809	JERGUSON	LEVEL GAUGE							
03-LSL-3810	E+H	LOW LEVEL SWITCH							
03-LAL-3810	RIS	LOW LEVEL ALARM POINT							
03-PSV-3811	CROSBY	SAFETY RELIEF VALVE							
03-PSV-3812	CROSBY	SAFETY RELIEF VALVE							
03-PI-3813	HELICOID	PRESSURE GAUGE

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF DWGS.	REMARKS OR DETAIL NO	RECEIVED
03-P1-3814A	HELICOID	PRESSURE GAUGE					03-28-038		
03-P1-3814B	HELICOID	PRESSURE GAUGE							
03-P1-3815A	HELICOID	PRESSURE GAUGE							
03-P1-3815B	HELICOID	PRESSURE GAUGE							
03-P1-3816A	HELICOID	PRESSURE GAUGE							
03-P1-3816B	HELICOID	PRESSURE GAUGE							
03-QA-3817	RIS	MOTOR SHUTDOWN ALARM POINT						COMMON ALARM FOR CHEMICAL FEED PUMPS	
03-QL-3817A	GE	PILOT LIGHT (RED)						BY PANEL VENDOR; PUMP P-0302A	
03-QL-3817B	GE	PILOT LIGHT (GREEN)						↓	
03-QL-3817C	GE	PILOT LIGHT (RED)						BY PANEL VENDOR; PUMP P-302B	
03-QL-3817D	GE	" " (GREEN)						↓	
03-QL-3817E	GE	PILOT LIGHT (RED)						BY PANEL VENDOR; PUMP P-305A	
03-QL-3817F	GE	" " (GREEN)						↓

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03-HIC-4503	FOXBORO	MANUAL IND. CONTROLLER					03-26-045		
03-I/P-4503A	MASONEILAN	TRANSDUCER							
03-FV-4503A	—	CONTROL VALVE						BY EQUIPMENT VENDOR	
03-I/P-4503B	MASONEILAN	TRANSDUCER							
03-FV-4503B	—	CONTROL VALVE						BY EQUIPMENT VENDOR	
03-I/P-4503C	MASONEILAN	TRANSDUCER							
03-FV-4503C	—	CONTROL VALVE						BY EQUIPMENT VENDOR	
03-I/P-4503D	MASONEILAN	TRANSDUCER							
03-FV-4503D	—	CONTROL VALVE						BY EQUIPMENT VENDOR	
03-I/I-4503	FOXBORO	CURRENT BOOSTER							
03-HIC-4504	FOXBORO	MANUAL IND. CONTROLLER							
03-I/P-4504A	MASONEILAN	TRANSDUCER							
03-FV-4504A	—	CONTROL VALVE						BY EQUIPMENT VENDOR	
03-I/P-4504B	MASONEILAN	TRANSDUCER							
03-FV-4504B	—	CONTROL VALVE						BY EQUIPMENT VENDOR	
03-I/P-4504C	MASONEILAN	TRANSDUCER							
03-FV-4504C	—	CONTROL VALVE						BY EQUIPMENT VENDOR	
03-I/P-4504D	MASONEILAN	TRANSDUCER							
03-FV-4504D	—	CONTROL VALVE						BY EQUIPMENT VENDOR	
03-I/I-4504	FOXBORO	CURRENT BOOSTER							

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
03-HIC-4505	FOXBORO	MANUAL IND. CONTROLLER					03-26-045		
03-I/P-4505A	MASONEILAN	TRANSDUCER							
03-FV-4505A	—	CONTROL VALVE						BY EQUIPMENT VENDOR	
03-I/P-4505B	MASONEILAN	TRANSDUCER							
03-FV-4505B	—	CONTROL VALVE						BY EQUIPMENT VENDOR	
03-I/P-4505C	MASONEILAN	TRANSDUCER							
03-FV-4505C	—	CONTROL VALVE						BY EQUIPMENT VENDOR	
03-I/P-4505D	MASONEILAN	TRANSDUCER							
03-FV-4505D	—	CONTROL VALVE						BY EQUIPMENT VENDOR	
03-I/I-4505	FOXBORO	CURRENT BOOSTER							
03-HIC-4506	FOXBORO	MANUAL IND. CONTR.							
03-I/P-4506A	MASONEILAN	TRANSDUCER							
03-FV-4506A	—	CONTROL VALVE						BY EQUIPMENT VENDOR	
03-I/P-4506B	MASONEILAN	TRANSDUCER							
03-FV-4506B	—	CONTROL VALVE						BY EQUIPMENT VENDOR	
03-I/P-4506C	MASONEILAN	TRANSDUCER							
03-FV-4506C	—	CONTROL VALVE						BY EQUIPMENT VENDOR	
03-I/P-4506D	MASONEILAN	TRANSDUCER							
03-FV-4506D	—	CONTROL VALVE						BY EQUIPMENT VENDOR	
03-I/I-4506	FOXBORO	CURRENT BOOSTER

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03-HIC-4507	FOXBORO	MANUAL IND. CONTR					03-26-045		
03-TP-4507A	MASONEILAN	TRANSDUCER							
03-FV-4507A	—	CONTROL VALVE						BY EQUIPMENT VENDOR	
03-TP-4507B	MASONEILAN	TRANSDUCER							
03-FV-4507B	—	CONTROL VALVE						BY EQUIPMENT VENDOR	
03-TP-4507C	MASONEILAN	TRANSDUCER							
03-FV-4507C	—	CONTROL VALVE						BY EQUIPMENT VENDOR	
03-TP-4507D	MASONEILAN	TRANSDUCER							
03-FV-4507D	—	CONTROL VALVE						BY EQUIPMENT VENDOR	
03-II-4507	FOXBORO	CURRENT BOOSTER							
03-FE-4508	—	FLOW NOZZLE						BY EQUIPMENT VENDOR	
03-FX-4508	FOXBORO	TRANSMITTER (FLOW)							
03-FYB-4508	↓	EXTRACTOR							
03-FFIC-4508	↓	FLOW RATIO CONTROLLER							
03-TP-4508	MASONEILAN	TRANSDUCER							
03-FV-4508	—	DAMPER (FLOW)						BY EQUIPMENT VENDOR	
03-FE-4509	—	ANNUBAR						BY EQUIPMENT VENDOR	
03-FX-4509	FOXBORO	TRANSMITTER (FLOW)							
03-FYB-4509	↓	EXTRACTOR							
03-FI-4509	↓	INDICATOR (FLOW)							

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
03-FE-4510	—	FLOW NOZZLE					03-26-045	FURNISHED BY C.E.C.	
03-FX-4510	FOXBORO	TRANSMITTER (FLOW)							
03-FYB-4510	FOXBORO	V-EXTRACTOR							
03-FFIC-4510	FOXBORO	RATIO CONTROLLER							
03-I/p-4510	MASONEILAN	TRANSDUCER							
03-FV-4510	—	DAMPER (FLOW)						FURNISHED BY C.E.C.	
03-HIC-4511	FOXBORO	MANUAL CONTROLLER							
03-I/p-4511A	MASONEILAN	TRANSDUCER							
03-FV-4511A	—	CONTROL VALVE						FURNISHED BY CEC	
03-I/p-4511B	MASONEILAN	TRANSDUCER							
03-FV-4511B	—	CONTROL VALVE						FURNISHED BY C.E.C.	
03-HIC-4512	FOXBORO	MANUAL CONTROLLER							
03-I/p-4512A	MASONEILAN	TRANSDUCER							
03-FV-4512A	—	CONTROL VALVE						FURNISHED BY CEC.	
03-I/p-4512B	MASONEILAN	TRANSDUCER							
03-FV-4512B	—	CONTROL VALVE						FURNISHED BY C.E.C.

**The Rust
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21-1899

FOR: BIOMASS CONVERSION
D.O.E
WESTBROOK, MAINE

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TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
03-SSL-4515	—	ZERO SPEED SWITCH					03-26-045	FURNISHED BY C.E.C.	
03-SAL-4515	RIS	ZERO SPEED ALARM POINT							
03-SZ-4516	—	SPEED DRIVE						FURNISHED BY C.E.C.	
03-TP-4516	MASONEILAN	TRANSDUCER							
03-SFIC-4516	FOXBORO	SPEED RATIO CONTROLLER							
03-SX-4517	—	SPEED TRANSMITTER						FURNISHED BY EQUIP. VENDOR	
03-SI-4517	FOXBORO	INDICATOR (SPEED)							
03-FE-4518	—	ANNUBAR						FURNISHED BY C.E.C.	
03-FX-4518	FOXBORO	TRANSMITTER (FLOW)							
03-FYB-4518	↓	✓ EXTRACTOR							
03-FFIC-4518	↓	RATIO CONTROLLER							
03-TP-4518	MASONEILAN	TRANSDUCER							
03-FV-4518	—	FLOW DAMPER						FURNISHED BY C.E.C.

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WESTBROOK, MAINE

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03-TI-4700	—	LOCAL TEMP. INDICATOR					03-28-047	BY EQUIPMENT VENDOR	
03-TSH-4701	—	HIGH TEMP. SWITCH						BY EQUIPMENT VENDOR	
03-TAH-4701	RIS	HIGH TEMP. ALARM POINT							
03-PDI-4702	—	LOCAL DIFF. PRESS. INDICATOR						BY EQUIPMENT VENDOR	
03-TI-4703	—	LOCAL TEMP. INDICATOR						BY EQUIPMENT VENDOR	
03-PSV-4704	—	PRESS. SAFETY VALVE						BY EQUIPMENT VENDOR	
03-TI-4705	—	LOCAL TEMP. INDICATOR						BY EQUIPMENT VENDOR	
03-TSH-4706	—	HIGH TEMP. SWITCH						BY EQUIPMENT VENDOR	
03-TAH-4706	RIS	HIGH TEMP. ALARM POINT							
03-PDI-4707	—	DIFF. PRESS. INDICATOR						BY EQUIPMENT VENDOR

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03-TI-4708	—	LOCAL TEMP. INDICATOR					03-28-047	BY EQUIPMENT VENDOR	
03-PSV-4709	—	PRESS. SAFETY VALVE						BY EQUIPMENT VENDOR	
03-PI-4710	—	INDICATOR (PRESS.)						BY EQUIPMENT VENDOR	
03-PI-4711	—	INDICATOR (PRESS.)						BY EQUIPMENT VENDOR	
03-TI-4712	—	LOCAL TEMP. INDICATOR						BY EQUIPMENT VENDOR	
03-QA-4713	RIS	MOTOR SHUTDOWN ALARM POINT							
03-QA-4714	RIS	MOTOR SHUTDOWN ALARM POINT							
03-PI-4715	HELICOID	LOCAL PRESSURE GAUGE							
03-PI-4716									
03-PI-4717									
03-PI-4718									
03-PI-4719									
03-PI-4720

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TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
04-ZX-0600	—	POSITION TRANSMITTER					04-26-006	BY EQUIPMENT VENDOR	
04-ZI-0600	—	POSITION INDICATOR							
04-ZI-0600	—	" "							
04-E/H-0600	—	ELECTRIC-TO-HYDRAULIC TRANSDUCER							
04-FV-0600	—	FLOW STOP VALVE							
04-ZX-0601	—	POSITION TRANSMITTER							
04-ZI-0601	—	POSITION INDICATOR							
04-ZC-0601	—	POSITION CONTROLLER							
04-I/H-0601	—	CURRENT-TO-HYDRAULIC TRANSDUCER							
04-PV-0601	—	PRESS. CONTROL VALVE							
04-PV-0602	—	PRESS. CONTROL VALVE							
04-ZX-0602	—	POSITION TRANSMITTER							
04-ZI-0602	—	POSITION INDICATOR							
04-ZI-0602	FOXBORO	" "						BOILER CONTROL PANEL	
04-ZC-0602	—	POSITION CONTROLLER						BY EQUIPMENT VENDOR	
04-I/H-0602	—	TRANSDUCER							
04-PV-0603	—	PRESS. CONTROL VALVE							
04-ZC-0603	—	POSITION CONTROLLER							
04-ZI-0603	—	POSITION INDICATOR							
04-ZX-0603	—	POSITION TRANSMITTER							
04-I/H-0603	—	TRANSDUCER							
04-VX-0604	—	VIBRATION TRANSMITTER							
04-VI-0604	—	" INDICATOR

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TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
04-TX-0606	—	TRANSMITTER(TEMP)					04-26-006	FURN. W/EQUIP.	
04-TI-0606	—	INDICATOR (TEMP.)						FURN. W/EQUIP.	
04-PIX-0607	—	PRESSURE INDICATING TRANSMITTER						FURN. W/EQUIP.	
04-PIE-0607	—	PRESSURE INDICATING CONTROLLER						FURN. W/EQUIP.	
04-TIS-0608	—	TEMP. INDICATING SWITCH						FURN. W/EQUIP.	
04-TAH-0608	—	HIGH TEMP. ALARM POINT						FURN. W/EQUIP.	
04-ESS-0609	—	SELECTOR SWITCH							
04-SYB-0609	—	SUMMER							
04-SIX-0609	—	SPEED TRANSMITTER						FURN. W/EQUIP.	
04-SIG-0609	—	SPEED INDICATOR CONTROLLER						FURN. W/EQUIP.	
04-SSH-0609	—	HIGH SPEED SWITCH						FURN. W/EQUIP.	
04-SAH-0609	—	HIGH SPEED ALARM POINT						FURN. W/EQUIP.	
04-SSS-0609	—	SPEED SIGNAL SELECTOR							
04-PIX-0610	—	PRESSURE TRANSMITTER						FURN. W/EQUIP.	
04-PI-0610	FOXBORO	INDICATOR (PRESS.)							
04-PSL-0611	—	LOW PRESS. SWITCH						FURN. W/EQUIP.	
04-PAL-0611	—	LOW PRESS. ALARM POINT							

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
04-PI-0612	HELICOID	INDICATOR (PRESS.)					04-26-006		
04-PIX-0613	—	PRESS. TRANSMITTER						FURN. W/EQUIP.	
04-PI-0613	—	PRESS. INDICATOR						FURN. W/EQUIP.	
04-PSH-0613	—	HIGH PRES. SWITCH						FURN. W/EQUIP.	
04-PAH-0613	—	HIGH PRESS. ALARM POINT						FURN. W/EQUIP.	
04-TIS-0614	—	TEMP. SWITCH.						FURN. W/EQUIP.	
04-TAH-0614	—	HIGH TEMP. ALARM POINT.						FURN. W/EQUIP.	
04-LG-0615	JERGUSON	LEVEL GAUGE							
04-I/P-0616	FOXBORO	TRANSDUCER					04-28-028		
04-LX-0616	FOXBORO	LEVEL TRANSMITTER					04-26-006		
04-LSL-0616		LOW LEVEL SWITCH							
04-LAL-0616		LOW LEVEL ALARM POINT							
04-LIC-0616		LEVEL INDICATING CONTR.							
04-LSH-0616		HIGH LEVEL SWITCH							
04-LAH-0616		HIGH LEVEL ALARM POINT							
04-LV-0616A		LEVEL CONTROL VALVE					04-28-028		
04-LV-0616B

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							04-26-006		
04-VX-0621	—	VIBRATION TRANSMITTER						FURN. W/EQUIP.	
04-VI-0621	—	" INDICATOR						↓	
04-VSH-0621	—	HIGH VIBRATION SWITCH						FURN. W/EQUIP.	
04-VAH-0621	—	HIGH VIBRATION ALARM POINT						FURN. W/EQUIP.	
04-TX-0622	—	TEMP. TRANSMITTER						FURN. W/EQUIP.	
04-TI-0622	—	TEMP. INDICATOR						FURN. W/EQUIP.	
04-JI-0623	—	POWER INDICATOR						↓	
04-VI-0624	—	VIBRATION INDICATOR						FURN. W/EQUIP.	
04-VX-0624	—	VIBRATION TRANSMITTER						↓	
04-VSH-0624	—	HIGH VIBRATION SWITCH						FURN. W/EQUIP.	
04-VAH-0624	—	HIGH VIBRATION ALARM POINT						FURN. W/EQUIP.

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04-TIS-0625	—	TEMP. INDICATOR SWITCH					04-26-006	FURN. W/EQUIP	
04-TAH-0625	—	HIGH TEMP. ALARM						FURN. W/EQUIP	
04-TIS-0626	—	TEMP. INDICATOR SWITCH						FURN. W/EQUIP.	
04-TAH-0626	—	HIGH TEMP. ALARM POINT						FURN. W/EQUIP.	
04-VSH-0627	—	HIGH VIBRATION SWITCH						FURN. W/EQUIP.	
04-VAH-0627	—	HIGH VIBRATION ALARM POINT						FURN. W/EQUIP.	
04-PYB-0628	—	VALVE COORDINATOR						FURN. W/EQUIP.	
04-PIC-0628	—	PRESSURE CONTROLLER					▼	↓	
04-PX-0628	—	PRESSURE TRANSMITTER					04-28-028	↓	
							↓		
04-PX-0629	—	PRESS. TRANSMITTER					↓	FURN. W/EQUIP.	
04-PIC-0629	—	PRESS. CONTROLLER					04-26-006	↓	

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
							04-28-028		
04-PI-2802	HELICOID	PRESSURE GAUGE						WITH SYPHON	
04-PI-2805	HELICOID	PRESSURE GAUGE						WITH SYPHON	
04-ESS-2806	GE	SELECTOR SWITCH						BY PANEL VENDOR	
04-PIC-2806	FOXBORO	PRESS. IND. CONTROLLER							
04-PX-2806	↓	" TRANSMITTER							
04-PV-2806A	YARWAY	DESUPERHEATER							
04-I/P-2806A	MASONEILAN	TRANSDUCER							
04-I/P-2806B	↓	↓							
04-PV-2806B	YARWAY	DESUPERHEATER							
04-PSV-2807	CROSBY	PRESSURE RELIEF VALVE							
04-PI-2808	HELICOID	PRESSURE GAUGE							
04-TI-2809	ASHCROFT	TEMP. GAUGE							
04-ESS-2810	GE	SELECTOR SWITCH						BY PANEL VENDOR	
04-TIC-2810	FOXBORO	TEMP. IND. CONTROLLER							
04-TX-2810	↓	" TRANSMITTER					↓

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04-PSV-2835	CROSBY	PRESSURE SAFETY VALVE					04-28-028		
2836									
2837									
2838									
2839									
2840									
2841									
2842									
04-QA-2843	RIS	MOTOR SHUTDOWN ALARM POINT							
04-QA-2844	RIS								
04-PI-2845	HELICOID	PRESSURE GAUGE							
04-PI-2846									
04-PI-2847								WITH SYPHON	
04-PI-2849	HELICOID	PRESSURE GAUGE							
04-FE-2851	DANIEL	ORIFICE							
04-FX-2851	FOXBORO	FLOW TRANSMITTER							
04-FYB-2851		✓ EXTRACTOR							
04-FI-2851		FLOW INDICATOR							

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
04-PSV-2853	CROSBY	PRESSURE SAFETY VALVE					04-28-028		
04-PI-2858	—	PRESSURE GAUGE						BY EQUIPMENT VENDOR	
04-PI-2859	—	PRESSURE GAUGE						BY EQUIPMENT VENDOR	
04-PI-2860	—	↓						↓	
04-TX-2863	FOXBORO	TEMP. TRANSMITTER							
04-TIC-2863	↓	" IND. CONTROLLER							
04-TV-2863	MASONEILAN	" CONTROL VALVE							
04-I/P-2863	↓	TRANSDUCER							
04-PI-2864	HELICOID	PRESSURE GAUGE							
04-QA-2865	RIS	MOTOR SHUTDOWN ALARM POINT							

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
04-PRV-2868	MASONEILAN	PRESS. REDUCING VALVE					04-28-028		
04-FE-2870	DANIEL	ORIFICE							
04-FX-2870	FOXBORO	FLOW TRANSMITTER							
04-FYB-2870		√ EXTRACTOR							
04-FI-2870	↓	FLOW INDICATOR							
04-TI-2871	—	TEMP. GAUGE						BY EQUIPMENT VENDOR	
04-TI-2872	—	↓						↓	
04-FE-2873	DANIEL	ORIFICE							
04-FX-2873	FOXBORO	FLOW TRANSMITTER							
04-FYB-2873		√ EXTRACTOR							
04-FI-2873	↓	FLOW INDICATOR							
04-FE-2874	DANIEL	ORIFICE							
04-FX-2874	FOXBORO	FLOW TRANSMITTER							
04-FYB-2874		√ EXTRACTOR							
04-FI-2874	↓	FLOW INDICATOR							

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TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
04-PSV-2900	CROSBY	PRESSURE SAFETY RELIEF VALVE					04-23-029		
04-FE-2901	DANIEL	ORIFICE							
04-FX-2901	FOXBORO	FLOW TRANSMITTER							
04-FYB-2901	↓	SQ. RT. EXTRACTOR							
04-FI-2901	FOXBORO	FLOW INDICATOR							
04-FSL-2901	↓	LOW FLOW ELECTRONIC SWITCH							
04-FAL-2901	RIS	LOW FLOW ALARM POINT							
04-PSV-2902	CROSBY	PRESSURE SAFETY RELIEF VALVE							
04-PI-2903	HELICOID	PRESSURE GAUGE							
04-PAL-2904	RIS	LOW PRESS. ALARM							
04-PX-2904	FOXBORO	PRESSURE TRANSMITTER						WITH SYPHON	
04-PI-2904		PRESSURE INDICATOR							
04-PSL-2904		LOW PRESS. SWITCH							
04-PX-2905		PRESSURE TRANSMITTER						WITH SYPHON	
04-PIC-2905	↓	PRESSURE INDICATING CONTROLLER							
04-PV-2905	YARWAY	PRESSURE CONTROL VALVE							
04-I/P-2905	MASONEILAN	TRANSDUCER					↓		

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF DWGS.	REMARKS OR DETAIL NO	RECEIVED
01-PIC-2911	FOXBORO	PRESS. INDICATING CONTROLLER					04-28-029		
04-PV-2911	YARWAY	PRESSURE CONTROL VALVE							
04-I/P-2911	MASONEILAN	TRANSDUCER							
04-PX-2911	FOXBORO	PRESS. TRANSMITTER						WITH SYPHON	
04-TIC-2912	↓	TEMP. INDICATING CONTROLLER						LOCAL MOUNT	
04-TV-2912	MASONEILAN	TEMP. CONTROL VALVE							
04-I/P-2912	↓	TRANSDUCER							
04-TX-2912	FOXBORO	TEMP TRANSMITTER.							
04-PI-2913	HELICOID	PRESS GAUGE						WITH SYPHON	
04-TI-2914	ASHCROFT	TEMP. INDICATOR							
04-PX-2915	FOXBORO	PRESS. TRANSMITTER						WITH SYPHON	
04-PI-2915	↓	PRESSURE INDICATOR							
04-PSL-2915	↓	LOW PRESSURE ELECTRONIC SWITCH							
04-PAL-2915	RIS	LOW PRESSURE ALARM POINT							
04-PSV-2916	CROSBY	PRESSURE SAFETY RELIEF VALVE

**The Rust
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04-PSV-2917	CROSBY	PRESSURE SAFETY RELIEF VALVE					04-28-029		
04-FE-2918	DANIEL	FLOW ORIFICE							
04-FX-2918	FOXBORO	FLOW TRANSMITTER							
04-FYB-2918		SQ. RT. EXTRACTOR							
04-FI-2918		FLOW INDICATOR							
04-FSL-2918	▼	LOW FLOW ELECTRONIC SWITCH							
04-FAL-2918	RIS	LOW FLOW ALARM POINT							
04-FE-2920	DANIEL	ORIFICE PLATE							
04-FX-2920	FOXBORO	FLOW TRANSMITTER							
04-FYB-2920		SQ. RT. EXTRACTOR							
04-FI-2920	▼	FLOW INDICATOR							
04-FE-2921	DANIEL	ORIFICE PLATE							
04-FX-2921	FOXBORO	FLOW TRANSMITTER							
04-FYB-2921		SQ. RT. EXTRACTOR							
04-FI-2921	▼	FLOW INDICATOR							

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
04-PRV-4000	MASONNEILAN	PRESS. REDUCING VALVE					04-23-040		
04-RO-4001	—	RESTRICTION ORIFICE						FURNISHED BY GENERATOR SUPPLIER	
04-RO-4002	—	RESTRICTION ORIFICE						FURNISHED BY GENERATOR SUPPLIER	
04-RO-4003	—	RESTRICTION ORIFICE						FURNISHED BY GENERATOR SUPPLIER	
04-RO-4004	—	RESTRICTION ORIFICE						FURNISHED BY GENERATOR SUPPLIER	
04-RO-4005	—	RESTRICTION ORIFICE						FURNISHED BY GENERATOR SUPPLIER	
04-RO-4006	—	RESTRICTION ORIFICE						FURNISHED BY GENERATOR SUPPLIER	
04-PI-4007	HELICOID	PRESSURE GAUGE

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04-PI-4008	HELICOID	PRESSURE INDICATOR					04-28-040		
04-TC-4009	—	LOCAL TEMPERATURE CONTROLLER						FURNISHED BY GENERATOR SUPPLIER	
04-TV-4009	—	TEMPERATURE CONTROL VALVE						↓	
04-RO-4010	—	RESTRICTION ORIFICE						FURNISHED BY GENERATOR SUPPLIER	
04-PRV-4011	—	PRESSURE REGULATOR						FURNISHED BY GENERATOR SUPPLIER	
04-PI-4012	—	PRESSURE GAUGE						FURNISHED BY GENERATOR SUPPLIER	
04-PI-4013	—	PRESSURE GAUGE						FURNISHED BY GENERATOR SUPPLIER	
04-RO-4014	—	RESTRICTION ORIFICE						FURNISHED BY GENERATOR SUPPLIER	
04-PSL-4015	—	LOW-LOW PRESSURE SWITCH						FURNISHED BY GENERATOR SUPPLIER	
04-PALL-4015	RIS	LOW-LOW PRESSURE ALARM							
04-PSL-4016	—	LOW PRESSURE SWITCH						↓ FURNISHED BY GENERATOR SUPPLIER

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04-PDSH-4017	FOXBORO	HIGH DIFF. PRESSURE SWITCH					04-29-040		
04-PDAH-4017	RIS	HIGH DIFF. PRESS. ALARM POINT							
04-PDI-4017	—	DIFF. PRESS. INDICATOR						BY EQUIPMENT VENDOR	
04-PDX-4017	—	DIFF. PRESS. TRANSMITTER						↓	
04-PDSH-4018	FOXBORO	HIGH DIFF. PRESSURE SWITCH							
04-PDAH-4018	RIS	HIGH DIFF. PRESS. ALARM POINT							
04-PDI-4018	—	DIFF. PRESSURE INDICATOR						BY EQUIPMENT VENDOR	
04-PDX-4018	—	DIFF. PRESS. TRANSMITTER						↓	
04-PI-4019	—	PRESSURE GAUGE						BY EQUIPMENT VENDOR	
04-PI-4020	—	PRESSURE GAUGE						BY EQUIPMENT VENDOR	
04-PI-4021	—	PRESSURE GAUGE						BY EQUIPMENT VENDOR	
04-PI-4022	—	PRESSURE GAUGE						BY EQUIPMENT VENDOR	
04-PI-4023	—	PRESSURE GAUGE						↓ BY EQUIPMENT VENDOR

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TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
04-TI-4024	—	TEMP. GAUGE					04-28-040	BY EQUIPMENT VENDOR	
04-TI-4025	—	TEMP. GAUGE						BY EQUIPMENT VENDOR	
04-TI-4026	—	TEMP. GAUGE						BY EQUIPMENT VENDOR	
04-LSL-4027	—	LOW LEVEL SWITCH						BY EQUIPMENT VENDOR	
04-LAL-4027	RIS	LOW LEVEL ALARM POINT							
04-TI-4028	—	TEMP. GAUGE						BY EQUIPMENT VENDOR	
04-TI-4029	—	TEMP. GAUGE						BY EQUIPMENT VENDOR	
04-TI-4030	—	TEMP. IND. SWITCH						BY EQUIPMENT VENDOR	
04-TAH-4030	RIS	HIGH TEMP. ALARM POINT

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TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
05-LG-3900	JERGUSON	LEVEL GAUGE					05-28-D39		
05-LSL-3901	E+H	LOW LEVEL SWITCH							
05-LAL-3901	RIS	LOW LEVEL ALARM POINT							
05-PI-3902A	HELICOID	PRESSURE GAUGE							
05-PI-3902B	↓	PRESSURE GAUGE							
05-PSV-3903A	CROSBY	PRESSURE SAFETY VALVE							
05-PSV-3903B	↓	PRESSURE SAFETY VALVE							
05-PI-3904	HELICOID	PRESSURE GAUGE							
05-QA-3905A	RIS	MOTOR SHUTDOWN ALARM POINT							
05-QA-3905B	RIS	MOTOR SHUTDOWN ALARM POINT							
05-PI-3906A	HELICOID	PRESSURE GAUGE							
05-PI-3906B	↓	PRESSURE GAUGE							

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
OS-PI-3910	HELICOID	PRESSURE GAUGE					OS-28-039		
OS-VSH-3912	—	HIGH VIBRATION SWITCH						FURNISHED BY FAN VENDOR	
OS-VAH-3912	RIS	HIGH VIBRATION ALARM POINT							
OS-QA-3913	RIS	MOTOR SHUTDOWN ALARM POINT							
OS-VSH-3914	—	HIGH VIBRATION SWITCH						FURNISHED BY FAN VENDOR	
OS-VAH-3914	RIS	HIGH VIBRATION ALARM POINT							
OS-QA-3915	RIS	MOTOR SHUTDOWN ALARM POINT							

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
							05-28-039		
05-XSH-3919	—	CL ₂ HIGH LEAKAGE SWITCH						BY EQUIPMENT VENDOR	
05-XAH-3919	—	CL ₂ HIGH LEAKAGE ALARM						↓	
05-XAH-3919	RIS	↓						BOILER CONTROL PANEL	
05-PI-3920	HELICOID	PRESSURE GAUGE							
05-AE-3921	—	CL ₂ SENSOR						BY EQUIPMENT VENDOR	
05-AC-3921	—	CL ₂ CONTROLLER							
05-AR-3921	—	CL ₂ RECORDER							
05-AV-3921A	—	CL ₂ CONTROL VALVE							
05-AV-3921B	—	↓						↓	
05-PRIV-3922	—	PRESS. REGULATOR						↓ BY EQUIPMENT VENDOR	

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
05-TI-3923	ASHCROFT	TEMP. GAUGE					05-23-039		
05-PI-3924	HELICOID	PRESS. GAUGE							
05-PI-3925	↓	↓							
05-XSH-3925	—	CL ₂ HIGH LEAKAGE SWITCH						BY EQUIPMENT VENDOR	
05-XAH-3925	—	CL ₂ HIGH LEAKAGE ALARM						↓	
05-XAH-3925	RIS	↓						BOILER CONTROL PANEL	
05-FIR-3926	—	CL ₂ FLOW REGULATOR						BY EQUIPMENT VENDOR	
05-ESS-3926	GE	SELECTOR SWITCH						BY PANEL VENDOR	
05-EV-3926A	ASCO	SOLENOID VALVE							
05-EV-3926B	↓	↓							
05-FV-3926A	MASONEILAN	FLOW CONTROL VALVE							
05-FV-3926B	↓	↓							
05-HIC-3927	FOXBORO	MANUAL CONTROLLER							
05-EV-3927	ASCO	SOLENOID VALVE							
05-I/P-3927	MASONEILAN	TRANSDUCER							
05-FV-3927	↓	FLOW CONTROL VALVE							

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
06-EV-3000	ASCO	SOLENOID VALVE					06-28-030		
06-FV-3000	MASONEILAN	FLOW CONTROL VALVE							
06-LX-3001	FOXBORO	LEVEL TRANSMITTER							
06-LIC-3001		LEVEL INDICATING CONTROLLER							
06-LSL-3001		LOW LEVEL ELECTRONIC SWITCH							
06-LAL-3001	RIS	LOW LEVEL ALARM POINT							
06-I/P-3001	MASONEILAN	TRANSDUCER							
06-LV-3001		LEVEL CONTROL VALVE							
06-LSH-3001	FOXBORO	HIGH LEVEL SWITCH							
06-LAH-3001	RIS	HIGH LEVEL ALARM							
06-QA-3002	RIS	MOTOR SHUTDOWN ALARM POINT							
06-QA-3003	RIS	MOTOR SHUTDOWN ALARM POINT							
06-QA-3004	RIS	MOTOR SHUTDOWN ALARM POINT							
06-P1-3005	HELICOID	PRESSURE GAUGE							
06-P1-3006	HELICOID	PRESSURE GAUGE							
06-P1-3007	HELICOID	PRESSURE GAUGE

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TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
06-PS-3008	ASCO TRI-POINT	PRESSURE SWITCH					06-28-030		
06-SSL-3009	—	ZERO SPEEDSWITCH						FURNISHED BY GRINDER SUPPLIER	
06-SAL-3009	RIS	ZERO SPEED ALARM POINT							
06-PI-3010	HELICOID	PRESSURE GAUGE							
06-EV-3011	ASCO	SOLENOID VALVE							
06-FV-3011	MASONEILAN	FLOW CONTROL VALVE							
06-PI-3012	HELICOID	PRESSURE GAUGE							
06-EV-3013	ASCO	SOLENOID VALVE							
06-FV-3013	MASONEILAN	FLOW CONTROL VALVE							
06-PI-3014	HELICOID	PRESSURE GAUGE							

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
06-EV-3015	ASCO	SOLENOID VALVE					06-28-030		
06-FV-3015	MASONEILAN	FLOW CONTROL VALVE							
06-EV-3016	ASCO	SOLENOID VALVE							
06-FV-3016	MASONEILAN	FLOW CONTROL VALVE							
06-HS-3017	—	HAND PNEUMATIC SWITCH						SUPPLIED BY SLUICE GATE SUPPLIER	
06-FV-3017	—	SLUICE GATE						SUPPLIED BY SLUICE GATE SUPPLIER	
06-PRV-3017	—	PRESSURE REGULATOR						↓	
06-EV-3018	ASCO	SOLENOID VALVE							
06-FV-3018	MASONEILAN	FLOW CONTROL VALVE							
06-EV-3019	—	SOLENOID VALVE						SUPPLIED BY HOPPER SUPPLIER	
06-FV-3019	—	FLOW CONTROL VALVE						SUPPLIED BY HOPPER SUPPLIER	
06-EV-3020	—	SOLENOID VALVE						SUPPLIED BY HOPPER SUPPLIER	
06-FV-3020	—	FLOW CONTROL VALVE						SUPPLIED BY HOPPER SUPPLIER

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06-EV-3021	—	SOLENOID VALVE					06-28-030	SUPPLIED BY HOPPER SUPPLIER	
06-FV-3021	—	FLOW CONTROL VALVE						SUPPLIED BY HOPPER SUPPLIER	
06-EV-3022	—	SOLENOID VALVE						SUPPLIED BY HOPPER SUPPLIER	
06-FV-3022	—	FLOW CONTROL VALVE						SUPPLIED BY HOPPER SUPPLIER	
06-EV-3023	—	SOLENOID VALVE						SUPPLIED BY HOPPER SUPPLIER	
06-FV-3023	—	FLOW CONTROL VALVE						SUPPLIED BY HOPPER SUPPLIER	
06-EV-3024	—	SOLENOID VALVE						SUPPLIED BY HOPPER SUPPLIER	
06-FV-3024	—	FLOW CONTROL VALVE						SUPPLIED BY HOPPER SUPPLIER	
06-FE-3025	DANIEL	ORIFICE							
06-FX-3025	FOXBORO	FLOW TRANSMITTER							
06-FYB-3025	↓	√ EXTRACTOR							
06-FI-3025	↓	FLOW INDICATOR							
06-PI-3026	HELICOID	PRESS. GAUGE

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06-PX-3100	FOXBORO	PRESS. TRANSMITTER					06-28-031		
06-PI-3100	↓	" INDICATOR							
06-PX-3101	FOXBORO	PRESS. TRANSMITTER							
06-PI-3101	↓	" INDICATOR							
06-LSH-3102A	DREXELBROOK	HIGH LEVEL SWITCH							
06-LLH-3102A	GE	PILOT LIGHT (WHITE)						BY PANEL VENDOR	
06-LSH-3102B	DREXELBROOK	HIGH LEVEL SWITCH							
06-LLH-3102B	GE	PILOT LIGHT (WHITE)						BY PANEL VENDOR	
06-LSH-3102C	DREXELBROOK	HIGH LEVEL SWITCH							
06-LLH-3102C	GE	PILOT LIGHT (WHITE)						BY PANEL VENDOR	
06-LAH-3102	RIS	HIGH LEVEL ALARM							
06-TE-3103	FOXBORO	TEMP. ELEMENT (RTD)							
06-TX-3103	↓	TEMP. TRANSMITTER							
06-TI-3103	↓	TEMP. INDICATOR

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06-PDX-3104	FOXBORO	DIFF. PRESS. TRANSMITTER					06-28-031		
06-PDI-3104	↓	DIFF. PRESS. INDICATOR							
06-PX-3105	FOXBORO	PRESS. TRANSMITTER							
06-PI-3105	↓	PRESSURE INDICATOR							
06-SSL-3106	—	ZERO SPEED SWITCH						SUPPLIED BY SCREW CONV. SUPPLIER	
06-SAL-3106	RIS	ZERO SPEED ALARM POINT							
06-TX-3107	FOXBORO	TEMP. TRANSMITTER							
06-TI-3107	↓	TEMP. INDICATOR							
06-TSH-3107	↓	HIGH TEMPERATURE ELECTRONIC SWITCH							
06-TAH-3107	RIS	HIGH TEMP. ALARM POINT							
06-TSHH-3107	FOXBORO	HIGH-HIGH TEMP. ELECTRONIC SWITCH							
06-TAHH-3107	RIS	HIGH-HIGH TEMP. ALARM POINT							
06-SSL-3108	—	ZERO SPEED SWITCH						SUPPLIED BY SCREW CONV. SUPPLIER	
06-SAL-3108	RIS	ZERO SPEED ALARM POINT							

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							06-28-031		
06-SSL-3109	—	ZERO SPEED SWITCH						SUPPLIED BY SCREW CONV. SUPPLIER	
06-SAL-3109	RIS	ZERO SPEED ALARM POINT							
06-AE-3110	WESTINGHOUSE	NO ₂ SENSOR							
06-AX-3110	↓	NO ₂ TRANSMITTER							
06-AI-3110	↓	NO ₂ INDICATOR							
06-AE-3111	PHILIPS	SO ₂ SENSOR							
06-AX-3111	↓	SO ₂ TRANSMITTER							
06-AI-3111	↓	SO ₂ INDICATOR							
06-OE-3112	DYNATRON	OPACITY SENSOR							
06-OX-3112	↓	OPACITY TRANSMITTER							
06-OI-3112	↓	OPACITY INDICATOR							
06-PX-3113	FOXBORO	PRESS. TRANSMITTER							
06-PI-3113	↓	PRESSURE INDICATOR

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06-PDSL-3114	—	LOW PRESS. DIFF. SWITCH					06-28-031	BY EQUIPMENT VENDOR	
06-PX-3115	FOXBORO	PRESS. TRANSMITTER							
06-PI-3115	↓	PRESSURE INDICATOR							
06-SSL-3116	—	ZERO SPEED SWITCH						BY EQUIPMENT VENDOR	
06-SALL-3116	RIS	ZERO SPEED ALARM POINT							
06-IIS-3117	GE	CURRENT INDICATING SWITCH					↓		
06-PX-3118	FOXBORO	PRESS. TRANSMITTER					03-28-026		
06-PI-3118	↓	PRESSURE INDICATING CONTROLLER					06-28-031		
06-IP-3118	MASON/ELAN	TRANSDUCER							
06-FV-3118	—	DAMPER						BY EQUIPMENT VENDOR	
06-VSH-3119	—	HIGH VIBRATION SWITCH						BY EQUIPMENT VENDOR	
06-VAH-3119	RIS	HIGH VIBRATION ALARM POINT							
06-QL-3120A	GE	PILOT LIGHT (GREEN)						BY PANEL VENDOR	
06-QA-3120	RIS	MOTOR SHUTDOWN ALARM POINT							
06-QL-3120B	GE	PILOT LIGHT (AMBER)					↓	BY PANEL VENDOR	

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TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO:	RECEIVED
01-FE-3200	DANIEL	ORIFICE PLATE					07-28-032		
07-FX-3200	FOXBORO	FLOW TRANSMITTER							
07-FYB-3200		SQ. RT. EXTRACTOR							
07-FI-3200		FLOW INDICATOR							
07-FAL-3200	RIS	LOW FLOW ALARM POINT							
07-FSL-3200	FOXBORO	LOW FLOW SWITCH							
07-LX-3201	FOXBORO	LEVEL TRANSMITTER							
07-LIC-3201		LEVEL INDICATING CONTROLLER							
07-LSL-3201	FOXBORO	LOW LEVEL ELECTRONIC SWITCH							
07-LAL-3201	RIS	LOW LEVEL ALARM POINT							
07-LSH-3201	FOXBORO	HIGH LEVEL ELECTRONIC SWITCH							
07-LAH-3201	RIS	HIGH LEVEL ALARM POINT							
07-I/P-3201	MASONIELAN	TRANSDUCER							
07-LV-3201		LEVEL CONTROL VALVE							

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
07-PDX-3208	FOXBORO	PRESS. DIFF. TRANSMITTER					07-28-032		
07-PD.I-3208		PRESS. DIFF. INDICATOR							
07-PDSH-3208	↓	HIGH DIFF. PRESS. ELECTRONIC SWITCH							
07-AE-3209	UNILOC	pH SENSOR							
07-AX-3209	↓	pH TRANSMITTER							
07-AI 3209	FOXBORO	pH INDICATOR							
07-FV-3210	—	FLOW CONTROL VALVE						FURNISHED BY FILTER SUPPLIER	
07-PI-3211	—	PRESSURE GAUGE						FURNISHED BY FILTER SUPPLIER	
07-FV-3212	—	FLOW CONTROL VALVE						FURNISHED BY FILTER SUPPLIER	
07-PI-3213	—	PRESSURE GAUGE						FURNISHED BY FILTER SUPPLIER

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07-FV-3214	—	FLOW CONTROL VALVE					07-28-032	FURNISHED BY FILTER SUPPLIER	
07-FV-3215	—	FLOW CONTROL VALVE						FURNISHED BY FILTER SUPPLIER	
07-FV-3216	—	FLOW CONTROL VALVE						FURNISHED BY FILTER SUPPLIER	
07-FE-3217	DANIEL	ORIFICE PLATE							
07-FX-3217	FOXBORO	FLOW TRANSMITTER							
07-FYB-3217	↓	SQ. RT. EXTRACTOR							
07-FI-3217	↓	FLOW INDICATOR							
07-PDX-3218	FOXBORO	PRESS. DIFF. TRANSMITTER							
07-PDI-3218	↓	DIFF. PRESS. INDICATOR							
07-PDSH-3218	↓	HIGH DIFF. PRESS. ELECTRONIC SWITCH							

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO:	RECEIVED
07-FV-3219	—	FLOW CONTROL VALVE					07-28-032	FURNISHED BY FILTER SUPPLIER	
07-EV-3219	—	SOLENOID VALVE						FURNISHED BY FILTER SUPPLIER	
07-PI-3220	—	PRESSURE GAUGE						FURNISHED BY FILTER SUPPLIER	
07-PI-3221	—	PRESSURE GAUGE						FURNISHED BY FILTER SUPPLIER	
07-FV-3222	—	FLOW CONTROL VALVE						FURNISHED BY FILTER SUPPLIER	
07-FV-3223	—	FLOW CONTROL VALVE						FURNISHED BY FILTER SUPPLIER	
07-FV-3224	—	FLOW CONTROL VALVE						FURNISHED BY FILTER SUPPLIER	
07-FV-3225	—	FLOW CONTROL VALVE						FURNISHED BY FILTER SUPPLIER

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TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO.	RECEIVED
07-FE-3226	DANIEL	ORIFICE PLATE					07-28-032		
07-FX-3226	FOXBORO	FLOW TRANSMITTER							
07-FYB-3226	↓	SQ. RT. EXTRACTOR							
07-FI-3226	↓	FLOW INDICATOR							
07-PDX-3227	FOXBORO	PRESS. DIFF. TRANSMITTER							
07-PDI-3227	↓	DIFF. PRESS. INDICATOR							
07-PDSH-3227	↓	HIGH DIFF. PRESS. ELECTRONIC SWITCH							
07-FV-3228	—	FLOW CONTROL VALVE						FURNISHED BY FILTER SUPPLIER	
07-PI-3229	—	PRESSURE GAUGE						FURNISHED BY FILTER SUPPLIER	
07-PI-3230	—	PRESSURE GAUGE						FURNISHED BY FILTER SUPPLIER	
07-FV-3231	—	FLOW CONTROL VALVE						FURNISHED BY FILTER SUPPLIER

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07-FE-3239	DANIEL	ORIFICE PLATE					07-28-032		
07-FX-3239	FOXBORO	FLOW TRANSMITTER							
07-FYB-3239		SQ. RT. EXTRACTOR							
07-FI-3239	↓	FLOW INDICATOR							
07-CE-3240	UNILOC	CONDUCTIVITY SENSOR							
07-CX-3240	UNILOC	CONDUCTIVITY TRANSMITTER							
07-CI-3240	FOXBORO	CONDUCTIVITY INDICATOR							
07-CSH-3240	↓	HIGH CONDUCTIVITY ELECTRONIC SWITCH							
07-CAH-3240	RIS	HIGH CONDUCTIVITY ALARM POINT							
07-AE-3241	UNILOC	Na ₂ SENSOR							
07-AX-3241	UNILOC	Na ₂ TRANSMITTER							
07-AI-3241	FOXBORO	Na ₂ INDICATOR							
07-ASH-3241	↓	HIGH Na ₂ ELECTRONIC SWITCH							
07-AAH-3241	RIS	HIGH Na ₂ ALARM POINT

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							07-78-032-		
07-FV-3243	—	FLOW CONTROL VALVE						FURNISHED BY DEMINERALIZER SUPPLIER	
07-FV-3244	—	FLOW CONTROL VALVE						FURNISHED BY DEMINERALIZER SUPPLIER	
07-FV-3245	—	FLOW CONTROL VALVE						FURNISHED BY DEMINERALIZER SUPPLIER	
07-FV-3246	—	FLOW CONTROL VALVE						FURNISHED BY DEMINERALIZER SUPPLIER	
07-FV-3247	—	FLOW CONTROL VALVE						FURNISHED BY DEMINERALIZER SUPPLIER

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07-FV-3248	—	FLOW CONTROL VALVE					07-28-032	FURNISHED BY DEMINERALIZER SUPPLIER	
07-FV-3249	—	FLOW CONTROL VALVE						FURNISHED BY DEMINERALIZER SUPPLIER	
07-FV-3250	—	FLOW CONTROL VALVE						FURNISHED BY DEMINERALIZER SUPPLIER	
07-FV-3251	—	FLOW CONTROL VALVE						FURNISHED BY DEMINERALIZER SUPPLIER	
07-FV-3252	—	FLOW CONTROL VALVE						FURNISHED BY DEMINERALIZER SUPPLIER	
07-FV-3253	—	FLOW CONTROL VALVE						FURNISHED BY DEMINERALIZER SUPPLIER	

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO.	RECEIVED
07-FV-3254	—	FLOW CONTROL VALVE					07-28-032	FURNISHED BY DEMINERALIZER SUPPLIER	
07-EV-3254	—	SOLENOID VALVE						FURNISHED BY DEMINERALIZER SUPPLIER	
07-PI-3255	—	PRESSURE GAUGE						FURNISHED BY DEMINERALIZER SUPPLIER	
07-PI-3256	—	PRESSURE GAUGE						FURNISHED BY DEMINERALIZER SUPPLIER	
07-AE-3257	UNILOC	SiO ₂ SENSOR							
07-AX-3257	UNILOC	SiO ₂ TRANSMITTER							
07-AI-3257	FOXBORO	SiO ₂ INDICATOR							
07-ASH-3257	↓	HIGH SiO ₂ ELECTRONIC SWITCH							
07-AAH-3257	RIS	HIGH SiO ₂ ALARM POINT							
07-FE-3259	DANIEL	ORIFICE PLATE							
07-FX-3259	FOXBORO	FLOW TRANSMITTER

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07-FYB-3259	FOXBORO	SQ. RT. EXTRACTOR					07-28-032		
07-FI-3259	↓	FLOW INDICATOR							
07-CE-3260	UNILOC	CONDUCTIVITY SENSOR							
07-CX-3260	UNILOC	CONDUCTIVITY TRANSMITTER							
07-CI-3260	FOXBORO	CONDUCTIVITY INDICATOR							
07-CSH-3260	↓	HIGH CONDUCTIVITY ELECTRONIC SWITCH							
07-CAH-3260	RIS	HIGH CONDUCTIVITY ALARM POINT							
07-AE-3261	UNILOC	Na SENSOR							
07-AX-3261	UNILOC	Na TRANSMITTER							
07-AI-3261	FOXBORO	Na INDICATOR							
07-ASH-3261	↓	HIGH Na ELECTRONIC SWITCH							
07-AAH-3261	RIS	HIGH Na - ALARM POINT

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TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO.	RECEIVED
07-AE-3262	UNILOC	pH SENSOR					07-28-032		
07-AX-3262	UNILOC	pH TRANSMITTER							
07-AI-3262	FOXBORO	pH INDICATOR							
07-ASL-3262	↓	LOW pH ELECTRONIC SWITCH							
07-AAL-3262	RIS	LOW pH ALARM POINT							
07-ASH-3262	FOXBORO	HIGH pH ELECTRONIC SWITCH							
07-AAH-3262	RIS	HIGH pH ALARM POINT							
07-FV-3263	—	FLOW CONTROL VALVE						FURNISHED BY DEMINERALIZER SUPPLIER	
07-FV-3264	—	FLOW CONTROL VALVE						FURNISHED BY DEMINERALIZER SUPPLIER	
07-FV-3265	—	FLOW CONTROL VALVE						FURNISHED BY DEMINERALIZER SUPPLIER	
07-FV-3266	—	FLOW CONTROL VALVE						FURNISHED BY DEMINERALIZER SUPPLIER

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07-FV-3267	—	FLOW CONTROL VALVE					07-28-032	FURNISHED BY DEMINERALIZER SUPPLIER	
07-FV-3268	—	FLOW CONTROL VALVE						FURNISHED BY DEMINERALIZER SUPPLIER	
07-FV-3269	—	FLOW CONTROL VALVE						FURNISHED BY DEMINERALIZER SUPPLIER	
07-FV-3270	—	FLOW CONTROL VALVE						FURNISHED BY DEMINERALIZER SUPPLIER	
07-FV-3271	—	FLOW CONTROL VALVE						FURNISHED BY DEMINERALIZER SUPPLIER	
07-FV-3272	—	FLOW CONTROL VALVE						FURNISHED BY DEMINERALIZER SUPPLIER

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TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
01-PDX-3277	FOXBORO	DIFF. PRESS. TRANSMITTER					07-28-032		
01-PDI-3277		DIFF. PRESS. INDICATOR							
01-PDSH-3277		HIGH DIFF. PRESS SWITCH							
01-PDX-3278	FOXBORO	DIFF. PRESS. TRANSMITTER							
01-PDI-3278		DIFF. PRESS. INDICATOR							
01-PDSH-3278		HIGH DIFF. PRESS. SWITCH							
01-FI-3279	W&T	FLOW INDICATOR							
01-PI-3280	HELICOID	PRESSURE INDICATOR							
01-PS-3281	ASCO TRI-POINT	PRESS. SWITCH							
01-PAL-3281	RIS	LOW PRESSURE ALARM POINT							
01-PRV-3282	MASONNEILAN	PRESS. REGULATOR							

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
07-FE-3300	DANIEL	ORIFICE PLATE					07-28-033		
07-FY-3300	FOXBORO	FLOW TRANSMITTER							
07-FYB-3300		SQ. RT. EXTRACTOR							
07-FI-3300	▼	FLOW INDICATOR							
07-PX-3301	FOXBORO	PRESSURE TRANSMITTER						WITH SYPHON	
07-PIC-3301	▼	PRESSURE INDICATING CONTROLLER							
07-PCL-3301	▼	LOW PRESSURE ELECTRONIC SWITCH							
07-PAL-3301	RIS	LOW PRESS. ALARM POINT							
07-I/P-3301	MASONEILAN	TRANSDUCER							
07-PV-3301	▼	PRESSURE CONTROL VALVE							
07-PI-3302	HELICOID	PRESSURE GAUGE						WITH SYPHON	
07-PI-3303	HELICOID	PRESSURE GAUGE						WITH SYPHON	
07-PI-3304	HELICOID	PRESSURE GAUGE						WITH SYPHON	

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
07-LC-3305	FOXBORO	LEVEL CONTROLLER					07-28-033	LOCAL MOUNT.	
07-LV-3305	↓	LEVEL CONTROL VALVE							
07-LG-3306	JERGUSON	LEVEL GAUGE							
07-LG-3307	JERGUSON	LEVEL GAUGE							
07-PI-3308	HELICOID	PRESSURE GAUGE							
07-FE-3309	DANIEL	ORIFICE PLATE							
07-FX-3309	FOXBORO	FLOW TRANSMITTER							
07-FYB-3309	↓	SQ. RT. EXTRACTOR							
07-FI-3309	↓	FLOW INDICATOR							
07-I/P-3310	MASONEILAN	TRANSDUCER							
07-SC-3310	—	SPEED REGULATOR						FURNISHED BY TURBINE VENDOR	
07-FE-3310	DANIEL	ORIFICE PLATE							
07-FX-3310	FOXBORO	FLOW TRANSMITTER							
07-FYB-3310	↓	SQ. RT. EXTRACTOR							
07-FIC-3310	↓	FLOW INDICATING CONTROLLER

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07-PI-3311	HELICOID	PRESSURE GAUGE					07-28-033		
07-PSV-3312	CROSBY	SAFETY RELIEF VALVE							
07-PI-3313	HELICOID	PRESSURE GAUGE							
07-PI-3314	HELICOID	PRESSURE GAUGE							
07-PI-3315	HELICOID	PRESSURE GAUGE							
07-PI-3316	HELICOID	PRESSURE GAUGE							
07-PSL-3317	ASCO TRI-POINT	LOW PRESSURE SWITCH							
07-PAL-3317	RIS	LOW PRESSURE ALARM POINT							
07-FE-3318	DANIEL	ORIFICE PLATE							
07-FX-3318	FOXBORO	FLOW TRANSMITTER							
07-FYB-3318		SQ. RT. EXTRACTOR							
07-FI-3318	▼	FLOW INDICATOR

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07-LX-3319	FOXBORO	LEVEL TRANSMITTER					07-28-033		
07-LIC-3319		LEVEL INDICATING CONTROLLER							
07-LSL-3319		LOW LEVEL ELECTRONIC SWITCH							
07-LAL-3319	RIS	LOW LEVEL ALARM POINT							
07-IP-3319	MASONNEILAN	TRANSDUCER							
07-LV-3319		LEVEL CONTROL VALVE							
07-PSV-3320	CROSBY	SAFETY RELIEF VALVE							
07-PI-3321	HELICOID	PRESSURE GAUGE							
07-PSV-3322	CROSBY	SAFETY RELIEF VALVE							
07-PI-3323	HELICOID	PRESSURE GAUGE							
07-PSV-3324	CROSBY	SAFETY RELIEF VALVE							
07-PSV-3325	CROSBY	SAFETY RELIEF VALVE							
07-PSV-3326	CROSBY	SAFETY RELIEF VALVE

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TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
07-LG-3327	JERGUSON	LEVEL GAUGE					07-28-033		
07-LX-3328	FOXBORO	LEVEL TRANSMITTER							
07-LIC-3328		LEVEL INDICATING CONTROLLER							
07-LSL-3328	↓	LOW LEVEL ELECTRONIC SWITCH							
07-LAL-3328	RIS	LOW LEVEL ALARM POINT							
07-I/P-3328	MASONEILAN	TRANSDUCER							
07-LV-3328	↓	LEVEL CONTROL VALVE							
07-PSV-3329	CROSBY	SAFETY RELIEF VALVE							
07-PI-3330	HELICOID	PRESSURE GAUGE						WITH SYPHON	
07-LG-3331	JERGUSON	LEVEL GAUGE							
07-LX-3332	FOXBORO	LEVEL TRANSMITTER							
07-LIC-3332		LEVEL INDICATING CONTROLLER							
07-LSL-3332	↓	LOW LEVEL ELECTRONIC SWITCH							
07-LAL-3332	RIS	LOW LEVEL ALARM POINT							
07-I/P-3332	MASONEILAN	TRANSDUCER							
07-LV-3332	↓	LEVEL CONTROL VALVE

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07-PSL-3333	ASCO TRI-POINT	LOW PRESSURE SWITCH					07-28-033		
07-PAL-3333	RIS	LOW PRESSURE ALARM POINT							
07-PI-3334	HELICOID	PRESSURE GAUGE							
07-FE-3335	DANIEL	ORIFICE PLATE							
07-FX-3335	FOXBORO	FLOW TRANSMITTER							
07-FYB-3335		SQ. RT. EXTRACTOR							
07-FI-3335	▼	FLOW INDICATOR							
07-PI-3336	HELICOID	PRESSURE GAUGE							
07-PI-3337	HELICOID	PRESSURE GAUGE

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07-PDI-3338	HELICOID	DIFF. PRESSURE GAUGE					07-28-033		
07-PDI-3339	HELICOID	DIFF. PRESSURE GAUGE							
07-HV-3340	MASONEILAN	CONTROL VALVE							
07-HV-3341	MASONEILAN	CONTROL VALVE							
07-TI-3342	ASHCROFT	TEMP. INDICATOR						WITH WELL	
07-TI-3343	ASHCROFT	TEMP. INDICATOR						WITH WELL	
07-TW-3344	FOXBORO	THERMO WELL							
07-TW-3345	FOXBORO	THERMO WELL							
07-TI-3346	ASHCROFT	TEMP. INDICATOR						WITH WELL	
07-TI-3347	ASHCROFT	TEMP. INDICATOR						WITH WELL	
07-TW-3348	FOXBORO	THERMO WELL							
07-TW-3349	FOXBORO	THERMO WELL

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07-TW-3350	FOXBORO	THERMO WELL					07-28-033		
07-TI-3351	ASHCROFT	TEMP. INDICATOR							
07-TW-3352	FOXBORO	THERMO WELL							
07-TW-3353	FOXBORO	THERMO WELL							
07-TW-3354	FOXBORO	THERMO WELL							
07-TI-3355	ASHCROFT	TEMP. INDICATOR							
07-TX-3356	FOXBORO	TEMP. TRANSMITTER						WITH WELL	
07-TI-3356	↓	TEMP. INDICATOR							
07-PI-3357	HELICOID	PRESSURE GAUGE							
07-PI-3358	HELICOID	PRESSURE GAUGE							
07-PI-3359	HELICOID	PRESSURE GAUGE						WITH SYPHON

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07-PI-3360	HELICOID	PRESSURE GAUGE					07-28-033		
07-PI-3361	HELICOID	PRESSURE GAUGE						WITH SYPHON	
07-PI-3362	HELICOID	PRESSURE GAUGE							
07-QA-3363	RIS	MOTOR SHUTDOWN ALARM POINT							
07-SSL-3364	—	ZERO SPEED SWITCH						BY EQUIPMENT VENDOR	
07-SAL-3364	RIS	ZERO SPEED ALARM POINT							
07-PX-3365	FOXBORO	PRESSURE TRANSMITTER							
07-PI-3365	↓	PRESSURE INDICATOR

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO:	RECEIVED
07-PSV-3409	CROSBY	PRESSURE SAFETY VALVE					07-28-034		
07-LG-3410	JERGUSON	LEVEL GAUGE							
07-PI-3411	HELICOID	PRESSURE GAUGE							
07-FE-3412	DANIEL	ORIFICE PLATE							
07-FX-3412	FOXBORO	FLOW TRANSMITTER							
07-FIC-3412	↓	FLOW INDICATING CONTROLLER							
07-I/P-3412	MASONEILAN	TRANSDUCER							
07-FV-3412	↓	FLOW CONTROL VALVE							
07-LG-3913	JERGUSON	LEVEL GAUGE							
07-LX-3914	FOXBORO	LEVEL TRANSMITTER							
07-LIC-3914	↓	LEVEL INDICATING CONTROLLER							
07-LAL-3914	RIS	LOW LEVEL ALARM POINT							
07-LAH-3914	↓	HIGH LEVEL ALARM POINT							
07-I/P-3914	MASONEILAN	TRANSDUCER							

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TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
07-LX-4200	FOXBORO	LEVEL TRANSMITTER					07-28-042		
07-LI-4200		LEVEL INDICATOR							
07-LSL-4200		LOW LEVEL ELECTRONIC SWITCH							
07-LAL-4200	RIS	LOW LEVEL ALARM POINT							
07-LSLL-4200	FOXBORO	LOW-LOW LEVEL SWITCH							
07-LALL-4200	RIS	LOW-LOW LEVEL ALARM POINT.							
									</

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							07-28-042		
07-TE-4204	Foxboro	TEMP. ELEMENT							
07-TX-4204		TEMP. TRANSMITTER							
07-TI-4204		TEMP. INDICATOR							
07-PSV-4205	—	PRESSURE SAFETY VALVE						BY EQUIPMENT VENDOR	
07-PI-4206	—	PRESSURE GAUGE						FURNISHED BY PUMP VENDOR W/DIAPHRAGM SEAL & DAMPENER	
07-PI-4207	—	PRESSURE GAUGE						FURNISHED BY PUMP VENDOR W/DIAPHRAGM SEAL & DAMPENER	
07-LI-4209	DREXELBROOK	LEVEL INDICATOR

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TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
07-QA-4211	RIS	MOTOR SHUTDOWN ALARM POINT					07-28-042		
07-QA-4212	RIS	MOTOR SHUTDOWN ALARM POINT							
07-PI-4213	HELICOID	PRESSURE GAUGE							
07-PI-4214	HELICOID	PRESSURE GAUGE							
07-QA-4215	RIS	MOTOR SHUTDOWN ALARM POINT							
07-QA-4216	RIS	MOTOR SHUTDOWN ALARM POINT							
07-FE-4217	DANIEL	ORIFICE PLATE							
07-FX-4217	FOXBORO	FLOW TRANSMITTER							
07-FYB-4217		SQ. RT. EXTRACTOR							
07-FI-4217		FLOW INDICATOR							

[illegible]

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07-PI-4225	—	PRESSURE GAUGE					07-28-042	FURNISHED BY PUMP VENDOR W/DIAPHRAGM SEAL & DAMPENER	
07-PI-4226	—	PRESSURE GAUGE						FURNISHED BY PUMP VENDOR W/DIAPHRAGM SEAL & DAMPENER	
07-LI-4227	DREXELBROOK	LEVEL INDICATOR							
07-CE-4228	UNILOC	CONDUCTIVITY SENSOR							
07-CX-4228	↓	CONDUCTIVITY TRANSMITTER							
07-CI-4228	FOXBORO	CONDUCTIVITY INDICATOR							
07-CSL-4228	↓	LOW CONDUCTIVITY ELECTRONIC SWITCH							
07-CAL-4228	RIS	LOW CONDUCTIVITY ALARM POINT							
07-CSH-4228	FOXBORO	HIGH CONDUCTIVITY ELECTRONIC SWITCH							
07-CAH-4228	RIS	HIGH CONDUCTIVITY ALARM POINT							
07-CE-4229	UNILOC	CONDUCTIVITY SENSOR							
07-CX-4229	UNILOC	CONDUCTIVITY TRANSMITTER							
07-CI-4229	FOXBORO	CONDUCTIVITY INDICATOR							
07-CSL-4229	↓	LOW CONDUCTIVITY ELECTRONIC SWITCH							
07-CAL-4229	RIS	LOW CONDUCTIVITY ALARM POINT							
07-CSH-4229	FOXBORO	HIGH CONDUCTIVITY ELECTRONIC SWITCH							
07-CAH-4229	RIS	HIGH CONDUCTIVITY ALARM POINT

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07-QA-4230	RIS	MOTOR SHUTDOWN ALARM POINT					07-28-042		
07-QA-4231	RIS	MOTOR SHUTDOWN ALARM POINT							
07-FV-4232	—	FLOW CONTROL VALVE						BY EQUIPMENT VENDOR	
07-FSL-4233	MAGNETROL	LOW FLOW SWITCH							
07-FSL-4234	MAGNETROL	SWITCH (LOW FLOW)							
07-FV-4235	—	FLOW CONTROL VALVE						BY EQUIPMENT VENDOR	
07-FV-4236	—	FLOW CONTROL VALVE						BY EQUIPMENT VENDOR	
07-FV-4237	—								
07-FV-4238	—								
07-HZ-4239	—	HAND ACTUATOR						BY EQUIPMENT VENDOR	
07-HZ-4240	—								
07-HZ-4241	—								
07-HZ-4242	—

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08-FX-3500	FOXBORO	FLOW TRANSMITTER					08-28-035		
08-FI-3500		FLOW INDICATOR							
08-FYB-3500	↓	√ EXTRACTOR							
08-FX-3501	FOXBORO	FLOW TRANSMITTER							
08-FI-3501	↓	FLOW INDICATOR							
08-FYB-3501	↓	√ EXTRACTOR							
08-PX-3502	FOXBORO	PRESSURE TRANSMITTER							
08-PI-3502	↓	PRESSURE INDICATOR							
08-PSL-3502	↓	LOW PRESS. SWITCH							
08-PAL-3502		" " ALARM							
08-PI-3503	HELICOID	PRESSURE GAUGE							
08PSV-3504	CROSBY	PRESSURE SAFETY VALVE							
08PSV-3505	CROSBY	PRESSURE SAFETY VALVE							

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO:	RECEIVED
08-PI-3506	HELICOID	PRESSURE GAUGE					08-28-035		
08-EV-3507	—	MOTORIZED VALVE						BY EQUIPMENT VENDOR	
08-PSV-3508	—	PRESS. SAFETY VALVE						BY EQUIPMENT VENDOR	
08-PSV-3509	—	PRESSURE SAFETY VALVE							
08-EV-3510	—	MOTORIZED VALVE							
08-EV-3511	—	MOTORIZED VALVE							
08-PI-3512	HELICOID	PRESSURE GAUGE							
08-PI-3513	HELICOID	PRESSURE GAUGE							

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08-PSV-3514	CROSBY	PRESSURE SAFETY VALVE					08-28-035		
08-PI-3515	HELICOID	PRESSURE GAUGE							
08-PI-3516	HELICOID	PRESSURE GAUGE							
08-PSV-3517	CROSBY	PRESSURE SAFETY VALVE							
08-PSV-3518	CROSBY	PRESSURE SAFETY VALVE							
08-PSL-3519	ASCO TRI-POINT	LOW PRESSURE SWITCH							
08-PAL-3519	RIS	LOW PRESSURE ALARM POINT							
08-PRV-3520	MASONEILAN	PRESSURE CONTROL VALVE

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09-FE-3600	DANIEL	ORIFICE PLATE					09-28-036		
09-FX-3600	FOXBORO	FLOW TRANSMITTER							
09-FYB-3600		✓ EXTRACTOR							
09-FI-3600	↓	FLOW INDICATOR							
09-FSL-3601	MAGNETROL	LOW FLOW SWITCH							
09-FAL-3601	RIS	LOW FLOW ALARM POINT							
09-PI-3602	—	PRESSURE GAUGE						BY EQUIPMENT VENDOR	
09-TI-3603	—	TEMP. GAUGE							
09-PDI-3604	—	DIFF. PRESS. GAUGE							
09-PSV-3605	—	PRESS. SAFETY VALVE

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09-QA-3606	RIS	MOTOR SHUTDOWN ALARM POINT					09-28-036		
09-QA-3607	RIS	MOTOR SHUTDOWN ALARM POINT							
09-PSV-3608	—	PRESS. SAFETY VALVE							
09-PRV-3610	—	PRESSURE REGULATOR						BY EQUIPMENT VENDOR	
09-PSY-3611	—	PRESSURE SAFETY VALVE							
09-PSV-3612	—	PRESSURE SAFETY VALVE							
09-PI-3613	—	PRESSURE GAUGE

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09-PDI-3614	—	DIFF. PRESS. GAUGE					09-28-036	BY EQUIPMENT VENDOR	
09-TI-3615	—	TEMP. GAUGE							
09-PI-3616	—	PRESS. GAUGE							
09-TX-3617	FOXBORO	TEMP. TRANSMITTER							
09-TI-3617	↓	TEMP. INDICATOR							
09-FV-3618	MASONEILAN	FLOW CONTROL VALVE							
09-EV-3618	ASCO	SOLENOID VALVE							
09-PI-3619	—	PRESS. GAUGE						BY EQUIPMENT VENDOR	
09-TRV-3620	—	TEMP. REGULATOR							
09-PI-3621	—	PRESS. GAUGE

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09-ZSO-3622	—	OPEN POSITION SWITCH					09-28-036	BY EQUIPMENT VENDOR	
09-ZLO-3622	GE	PILOT LIGHT (AMBER)						BY PANEL VENDOR	
09-ZSC-3622	—	CLOSED POSITION SWITCH						BY EQUIPMENT VENDOR	
09-ZLC-3622	GE	PILOT LIGHT (BLUE)						BY PANEL VENDOR	
09-ZSO-3623	—	OPEN POSITION SWITCH						BY EQUIPMENT VENDOR	
09-ZSC-3623	—	CLOSED " "						↓	
09-ZLO-3623	GE	PILOT LIGHT (AMBER)						BY PANEL VENDOR	
09-ZLC-3623	GE	" " (BLUE)						↓	
09-ZSO-3624	—	OPEN POSITION SWITCH						BY EQUIPMENT VENDOR	
09-ZSC-3624	—	CLOSED " "						↓	
09-ZLO-3624	GE	PILOT LIGHT (AMBER)						BY PANEL VENDOR	
09-ZLC-3624	GE	" " (BLUE)						↓	
09-ZSO-3625	—	OPEN POSITION SWITCH						BY EQUIPMENT VENDOR	
09-ZSC-3625	—	CLOSED " "						↓	
09-ZLO-3625	GE	PILOT LIGHT (AMBER)						BY PANEL VENDOR	
09-ZLC-3625	GE	" " (BLUE)						↓	
09-FV-3626	MASONEILAN	FLOW CONTROL VALVE							
09-EV-3626	ASCO	SOLENOID VALVE							
09-LX-3627	FOXBORO	LEVEL TRANSMITTER							
09-LI-3627	↓	LEVEL IND. CONTROLLER							

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10-SSL-4100	—	ZERO SPEED SWITCH					10-28-041	SUPPLIED BY ROT. VALVE SUPPLIER	
10-SAL-4100	RIS	ZERO SPEED ALARM POINT							
10-SSL-4101	—	ZERO SPEED SWITCH						SUPPLIED BY ROT. VALVE SUPPLIER	
10-SAL-4101	RIS	ZERO SPEED ALARM POINT							
10-SSL-4102	—	ZERO SPEED SWITCH						SUPPLIED BY ROT. VALVE SUPPLIER	
10-SAL-4102	RIS	ZERO SPEED ALARM POINT							
10-SSL-4103	—	ZERO SPEED SWITCH						SUPPLIED BY ROT. VALVE SUPPLIER	
10-SAL-4103	RIS	ZERO SPEED ALARM POINT							
10-EV-4104	—	SOLENOID VALVE						SUPPLIED BY ASH HANDLING SUPPLIER	
10-FV-4104	—	FLOW CONTROL VALVE						SUPPLIED BY ASH HANDLING SUPPLIER	
10-EV-4105	ASCO	SOLENOID VALVE							
10-FV-4105	MASONEILAN	FLOW CONTROL VALVE							
10-EV-4106	ASCO	SOLENOID VALVE							
10-FV-4106	MASONEILAN	FLOW CONTROL VALVE

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TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
10-EV-4107	ASCO	SOLENOID VALVE					10-28-041		
10-FV-4107	MASONEILAN	FLOW CONTROL VALVE							
10-EV-4108	ASCO	SOLENOID VALVE							
10-FV-4108	MASONEILAN	FLOW CONTROL VALVE							
10-HS-4109	—	PNEU. SWITCH						SUPPLIED BY SLUICE GATE SUPPLIER	
10-HV-4109	—	SLUICE GATE						SUPPLIED BY SLUICE GATE SUPPLIER	
10-PRV-4109	—	PRESS. REGULATOR						SUPPLIED BY SLUICE GATE SUPPLIER	
10-EV-4110	ASCO	SOLENOID VALVE							
10-FV-4110	MASONEILAN	FLOW CONTROL VALVE							
10-EV-4111	—	SOLENOID VALVE						SUPPLIED BY ASH HANDLING SUPPLIER	
10-FV-4111	—	FLOW CONTROL VALVE						SUPPLIED BY ASH HANDLING SUPPLIER	
10-EV-4112	—	SOLENOID VALVE						SUPPLIED BY ASH HANDLING SUPPLIER	
10-FV-4112	—	FLOW CONTROL VALVE						SUPPLIED BY ASH HANDLING SUPPLIER	

TAG NUMBER	MANUFACTURER	DESCRIPTION	VENDOR	SPEC. NO.	PURCHASE ORDER	LOOP SHEET	REF. DWGS.	REMARKS OR DETAIL NO	RECEIVED
10-EV-4113	—	SOLENOID VALVE					10-28-041	SUPPLIED BY ASH HANDLING SUPPLIER	
10-FV-4113	—	FLOW CONTROL VALVE						SUPPLIED BY ASH HANDLING SUPPLIER	
10-EV-4114	—	SOLENOID VALVE						SUPPLIED BY ASH HANDLING SUPPLIER	
10-FV-4114	—	FLOW CONTROL VALVE						SUPPLIED BY ASH HANDLING SUPPLIER	
10-EV-4115	—	SOLENOID VALVE						SUPPLIED BY ASH HANDLING SUPPLIER	
10-FV-4115	—	FLOW CONTROL VALVE						SUPPLIED BY ASH HANDLING SUPPLIER	
10-LSH-4116	DREXEL BROOK	HIGH LEVEL SWITCH							
10-LAH-4116	RIS	HIGH LEVEL ALARM POINT							
10-SSL-4117	—	ZERO SPEED SWITCH						SUPPLIED BY ROTARY VALVE SUPPLIER	
10-SAL-4117	RIS	ZERO SPEED ALARM POINT							
10-LSH-4118	DREXEL BROOK	HIGH LEVEL SWITCH							
10-LAH-4118	RIS	HIGH LEVEL ALARM POINT

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10-SSL-4119	—	ZERO SPEED SWITCH					10-28-041	SUPPLIED BY ROTARY VALVE SUPPLIER	
10-SAL-4119	RIS	ZERO SPEED ALARM POINT							
10-LSH-4120	DREXELBROOK	HIGH LEVEL SWITCH							
10-LAH-4120	RIS	HIGH LEVEL ALARM POINT							
10-SSL-4121	—	ZERO SPEED SWITCH						SUPPLIED BY ROTARY VALVE SUPPLIER	
10-SAL-4121	RIS	ZERO SPEED ALARM POINT							
10-EV-4122	ASCO	SOLENOID VALVE							
10-FV-4122	MASONEILAN	FLOW CONTROL VALVE							
10-EV-4123	ASCO	SOLENOID VALVE							
10-FV-4123	MASONEILAN	FLOW CONTROL VALVE							
10-EV-4124	ASCO	SOLENOID VALVE							
10-FV-4124	MASONEILAN	FLOW CONTROL VALVE

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10-EV-4125	ASCO	SOLENOID VALVE					10-29-041		
10-FV-4125	MASONEILAN	FLOW CONTROL VALVE							
10-EV-4126	ASCO	SOLENOID VALVE							
10-FV-4126	MASONEILAN	FLOW CONTROL VALVE							
10-TI-4127	ASHCROFT	TEMP. INDICATOR						w/WELL	
10-PSL-4128	ASCO TRI-POINT	LOW PRESSURE SWITCH							
10-PAL-4128	RIS	LOW PRESSURE ALARM POINT							
10-SSL-4129	—	ZERO SPEED SWITCH						SUPPLIED BY ROTARY VALVE SUPPLIER	
10-SAL-4129	RIS	ZERO SPEED ALARM POINT							
10-QA-4130	RIS	MOTOR SHUTDOWN ALARM							
10-QA-4131	RIS	↓							
10-EV-4132	ASCO	SOLENOID VALVE							
10-TV-4132	MASONEILAN	TEMP. CONTROL VALVE							
10-TSL-4132	ASCO TRI-POINT	LOW TEMP. SWITCH

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