



F3502-0132-PL FMF Shroud Assembly Casting Furnace Installation Parts List

September 1986

Changing the World's Energy Future

Doug Porter



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Idaho Falls, Idaho 83415**

<http://www.inl.gov>

**Prepared for the
U.S. Department of Energy
Under DOE Idaho Operations Office
Contract DE-AC07-05ID14517**

PART NO.	DRAWING NO.	PART NAME OR DESCRIPTION	REMARKS	FOR PURCH. PARTS ONLY	
				MATERIAL	QTY.
	F3502-0132-EE	SHROUD ASSEMBLY, CASTING FURNACE INSTALLATION	(3 SHEETS)		
1	F3502-0145-EE	SHROUD			1
2	F3502-0146-EE	SHROUD ADAPTER - LEFT SIDE			1
3	F3502-0147-EE	SHROUD ADAPTER - RIGHT SIDE			1
4	F3502-0148-ED	WINDOW GLOVEPORT			2
5	F3502-0149-EC	WINDOW CLAMP - LONG			4
6	F3502-0150-EC	WINDOW CLAMP - SHORT			4
7	F3502-0151-EC	COVER PLATE			1
8	F3502-0152-EB	P1 - WINDOW - TOP			1
9	F3502-0152-EB	P2 - WINDOW - TOP			3

SYM.	CHANGE	BY	CK.	DATE
1	PER DCN F3502-025	REO	PK	8-25-87
2	PER DCN F3502-043	LEB	PK	8-25-87

THIS PARTS LIST IS
THE PROPERTY OF

**ARGONNE
NATIONAL LABORATORY**

ASSEMBLY *FMP*
SHROUD ASSEMBLY
CASTING FURNACE INSTALLATION

APP'D	<i>RVA</i>	<i>11-18-86</i>	ASSEMBLY NO.
CHECKED	<i>XTZ</i>	<i>10-9-86</i>	
DRAWN	<i>CW</i>	<i>9-15-86</i>	

SHEET *1*
OF *9*

F3502-0132-PL-01

PART NO.	DRAWING NO.	PART NAME OR DESCRIPTION	REMARKS	FOR PURCH. PARTS ONLY	
				MATERIAL	QTY.
10	F3502-0153-EB	P1- FILTER CLAMP - SIDE			1
11	F3502-0153-EB	P2- FILTER CLAMP - SIDE			1
12	F3502-0154-EB	FILTER CLAMP - BOTTOM			1
13	F3502-0139-ED	CLIP MOUNTING PLATE			1
14	F3502-0140-EC	PLATE BRACKET			2
15	F3502-0155-ED	CLIP SHROUD			1
16	F3502-0156-EB	CLIP COVER PLATE			1
17	F3502-0157-EB	PLATE, FEED THRU			1
18	F3502-0158-EB	P1 GASKET, FEEDTHRU PLATE			1
19	F3502-0159-EB	FILLER ANGLE			2

SYM.	CHANGE	BY	CK.	DATE	THIS PARTS LIST IS THE PROPERTY OF ARGONNE NATIONAL LABORATORY	ASSEMBLY FMP SHROUD ASSEMBLY CASTING FURNACE INSTALLATION		SHEET 2 OF 9
						APP'D RVR 11-18-86	ASSEMBLY NO.	
						CHECKED XTG 10-9-86	F3502-0132-PL-01	
						DRAWN CW 9-15-86		

PART NO.	DRAWING NO.	PART NAME OR DESCRIPTION	REMARKS	FOR PURCH. PARTS ONLY	
				MATERIAL	QTY.
1 20		GLOVEPORT # SN-101-1 ZOLLINGER	OR EQUAL	MFG STD	14
1 21		CLAMPING RING # SN-101-2 ZOLLINGER	OR EQUAL	MFG STD	14
1 22		PORT COVER # SN-101-3 ZOLLINGER	OR EQUAL	MFG STD	14
1 23		U-GASKET # SN-101-4 ZOLLINGER	OR EQUAL	NEOPRENE MFG STD	14
1 24		HOSE CLAMP # SN-101-5 ZOLLINGER	OR EQUAL	STL MFG STD	14
1 25		O-RING # SN-101-6 ZOLLINGER	OR EQUAL	NEOPRENE MFG STD	28
1 26		HOSE CLAMP PAD # SN-101-7 ZOLLINGER	OR EQUAL	NEOPRENE MFG STD	14
1 27		GASKET, 3/8 CHANNEL # 61995 OR # 61987 STAINLESS EQUIP. CO.	OR EQUAL	MFG STD	8/12
28		SHUTTER, AUTOMATIC, FRONT FLANGE, STEEL FRAME	OR EQUAL	STL MFG STD	1
		12" SQ # 2030 K41 MCMASTER CARR			
		CAT # 91 PAGE 57			

SYM.	CHANGE	BY	CK.	DATE	THIS PARTS LIST IS THE PROPERTY OF ARGONNE NATIONAL LABORATORY	ASSEMBLY FME SHROUD ASSEMBLY CASTING FURNACE INSTALLATION	SHEET 3 OF 9
						APP'D RHR 11-18-86 CHECKED RTA 10-9-86 DRAWN CW 9-15-86	ASSEMBLY NO. F3502-0132-PL01

PART NO.	DRAWING NO.	PART NAME OR DESCRIPTION	REMARKS	FOR PURCH. PARTS ONLY	
				MATERIAL	QTY.
29		AIR FILTER 13 1/8" SQ X 1/2" THICK # 2063 K38	OR EQUAL	MFG STD	1
		McMASTER CARR CAT#91 PG#77			
30		HINGE 2"x.060 x 72" #1589A 69 McMASTER CARR	OR EQUAL	SST MFG STD	1
		CAT #91 PG#774 (TO BE CUT 18" LG AT ASSEMBLY)			
31		PULLS, DOOR & DRAWER FIG.M #1646A34	OR EQUAL	ALUM MFG STD	2
		CAT#91, PAGE#790 McMASTER CARR			
32		SCREW HEX HD CAP, 1/4-20UNC-2A x 1/2" LG		STL MFG STD	20
33		SCREW, HEX HD CAP, 3/8-16UNC-2A x 1" LG		STL MFG STD	7
34		SCREW, HEX HD CAP, 3/8-16UNC-2A x 1 1/2" LG		STL MFG STD	15
35		NUT, HEX, 3/8-16UNC-2B		STL MFG STD	15
36		SCREW FLAT HD SLOTTED #6-32UNC-2A x 3/8" LG		STL MFG STD	18

SYM.	CHANGE	BY	CK.	DATE	THIS PARTS LIST IS THE PROPERTY OF ARGONNE NATIONAL LABORATORY	ASSEMBLY FMP SHROUD ASSEMBLY CASTING, FURNACE INSTALLATION		SHEET 4 OF 9
						APP'D RHR 11-18-86 CHECKED STG 10-9-86 DRAWN CW 9-15-86	ASSEMBLY NO. F3502-0132-PL-01	

ANL-146 (4-62) ENGINEERING PARTS LIST

☆ GPO: 1984-755-130

PART NO.	DRAWING NO.	PART NAME OR DESCRIPTION	REMARKS	FOR PURCH. PARTS ONLY																															
				MATERIAL	QTY.																														
44		SCREW, PAN HD POZIDRIVE, TYPE F SELF TAPPING #6-32 x 1/2 LG		STL MFG STD	18																														
45		SCREW, HEX HD CAP 3/8-16 UNC-2A x 1 3/4 LG		STL MFG STD	4																														
46		LOCK WASHER 3/8 NOM		STL MFG STD	4																														
47		FLAT WASHER 3/8 NOM		STL MFG STD	4																														
48		GASKET MATERIAL 2" x 1/8"		BUNA-N 40-45 A SCALE DUROMETER	A/R																														
49		GASKET MATERIAL 3/4 x 1/16		BUNA-N 40-45 A SCALE DUROMETER	A/R																														
50		CHECK VALVE 2" BRONZE 300 LB STRATA FLOW PRODUCTS INC.	OR EQUAL	BRONZE MFG STD	1																														
51		UNION 2" THREADED SCH 80 PVC W/O RING NIBCO INC.	ASTM-D1784 OR EQUAL	PVC MFG STD	1																														
<table border="1"> <thead> <tr> <th>SYM.</th> <th>CHANGE</th> <th>BY</th> <th>CK.</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>						SYM.	CHANGE	BY	CK.	DATE																									
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THIS PARTS LIST IS THE PROPERTY OF ARGONNE NATIONAL LABORATORY					ASSEMBLY FMP SHOULD ASSEMBLY CASTING FURNACE INSTALLATION APP'D RVR 11-18-86 CHECKED LR 10-9-86 DRAWN GW 9-15-86 ASSEMBLY NO. F3502-0132-PL-01																														
					SHEET 6 OF 9																														

PART NO.	DRAWING NO.	PART NAME OR DESCRIPTION	REMARKS	FOR PURCH. PARTS ONLY	
				MATERIAL	QTY.
52		90° ELL 2" THREADED SCH 80 PVC NIBCO INC	OR EQUAL	PVC MFG STD	1
		ASTM D1784			
53		FLANGE 2" THREADED SCH 80 CLASS 150 PVC	ASTM-D1784	PVC MFG STD	1
		NIBCO INC	OR EQUAL		
54		PIPE 2" SCH 80 PVC	ASTM-D1784	PVC MFG STD	A/R
55		SCREW, HEX HD CAP, 5/8-11 UNC-24 X 2 1/2 LG		ASTM A193 GR B	4
56		FLAT WASHER 5/8 NOM		STL MFG STD	8
57		NUT, HEX 5/8-11 UNC-2B		ASTM A194 GR 2H or 2B	4
58	F3502-0084-EB	GASKET PART #1			1
59		ADAPTER COUPLING, 1/4 NPT SCH 80 PVC NIBCO INC	OR EQUAL	PVC MFG STD	1
		ASTM-D1784			
60	F3502-0157-EB	P2 PLATE-FEEDTHRU			2

SYM.	CHANGE	BY	CK	DATE	THIS PARTS LIST IS THE PROPERTY OF ARGONNE NATIONAL LABORATORY	ASSEMBLY FMP SHROUD ASSEMBLY CASTING FURNACE INSTALLATION		SHEET 7 OF 9	
						APP'D	RHR	11-18-86	ASSEMBLY NO.
						CHECKED	272	10-9-86	F3502-0132-PL-01
						DRAWN	CW	9-15-86	

PART NO.	DRAWING NO.	PART NAME OR DESCRIPTION	REMARKS	FOR PURCH. PARTS ONLY	
				MATERIAL	QTY.
61	F3502-0158-EB	P2 GASKET-FEEDTHRU PLATE			2
62	F3502-0184-EB	PLATE-COVER			1
63	F3502-0185-EB	GASKET-COVER			1
64		GASKET-2" Φ G-102 VACUUM RESEARCH CO.	OR EQUAL	MFG STD	1
65		ELL 45°-2" SCH 80 SOCKET		PVC MFG STD	2
66	F3502-0234-EC	WINDOW-SIDE LOWER			2
67	F3502-0233-EC	WINDOW-SIDE-UPPER			2
68	F3502-0232-EC	WINDOW-END			1
69		WINDOW 9" X 18" X $\frac{3}{8}$ " THICK		LEXAN	1
70		WINDOW 9" X 11" X $\frac{3}{8}$ " THICK		LEXAN	1

SYM.	CHANGE	BY	CK.	DATE	THIS PARTS LIST IS THE PROPERTY OF ARGONNE NATIONAL LABORATORY	ASSEMBLY FMF SHROUD ASSEMBLY CASTING FURNACE INSTALLATION		SHEET 8 OF 9	
						APP'D	<i>RWR</i> 11-20-86		ASSEMBLY NO.
						CHECKED	<i>ETA</i> 11-20-86		
						DRAWN	<i>RES</i> 11-19-86		
									F3502-0132-PL-01

PART NO.	DRAWING NO.	PART NAME OR DESCRIPTION	REMARKS	FOR PURCH. PARTS ONLY	
				MATERIAL	QTY.
71		WINDOW 9" X 16" X $\frac{3}{8}$ " THICK		LEXAN	1
72		WINDOW 9" X 25" X $\frac{3}{8}$ " THICK		LEXAN	1
73		WINDOW 10" X 20" X $\frac{3}{8}$ " THICK	MODIFY AT INSTALLATION	LEXAN	1
74		SCREW-PAN HD #6-32 X $\frac{5}{8}$ " LONG TYPE F SELF TAPPING		STEEL MFG STD	A/R
75		ANGLE $1\frac{1}{2}$ X $1\frac{1}{2}$ X $\frac{1}{8}$ X 5 FT LONG	CUT TO FIT AT ASSY	ALUM 6061-T6	A/R
76		WEATHER STRIP, SELF SEALING & LOCKING $\frac{1}{8}$ " THICK BODY PANEL X $\frac{3}{8}$ " THICK GLASS PANEL COLOR BLACK #SC820 GOOD-ALL RUBBER CO.	OR EQUAL	NEOPRENE MFG STD	A/R
77		ENCLOSURE SYSTEM, GLOVE ASSEMBLY, ($\emptyset 8"$) CRL DWG C-18885, CENTRAL RESEARCH LAB (CRL)	SEE CRL PL No. A-18886	MFG STD	14

SYM.	CHANGE	BY	CK.	DATE	THIS PARTS LIST IS THE PROPERTY OF ARGONNE NATIONAL LABORATORY	ASSEMBLY FVF SHROUD ASSEMBLY CASTING FURNACE INSTALLATION		SHEET 9 OF 9
						APP'D	ASSEMBLY NO.	
						CHECKED	7-17-87	
						DRAWN	5-22-87	
						F3502-0132-PL-01		