

LÍNEA DE CORTE DE ORIGINAL  
LÍNEA DE CORTE DE COPIA

AGM-02-0204-PLA-P-0009

P-1004 A/S  
LIQUID FUEL FORWARDING SKID DUPLEX PUMP  
DESIGN CAPACITY: 150 gpm [568 lpm]  
DESIGN PRESSURE: 55-150 psig [378-1034 kPa]  
DESIGN TEMP: 40-150°F [4-66°C]

P-1005 A/S  
LIQUID FUEL FORWARDING SKID DUPLEX PUMP  
DESIGN CAPACITY: 150 gpm [568 lpm]  
DESIGN PRESSURE: 55-150 psig [378-1034 kPa]  
DESIGN TEMP: 40-150°F [4-66°C]

F-1004  
LIQUID FUEL MANAGEMENT SPOOL  
DESIGN CAPACITY: 150 gpm [568 lpm]  
DESIGN PRESSURE: 75 psig [517 kPa]  
DESIGN TEMP: 40-150°F [4-66°C]

F-1005  
LIQUID FUEL MANAGEMENT SPOOL  
DESIGN CAPACITY: 150 gpm [568 lpm]  
DESIGN PRESSURE: 75 psig [517 kPa]  
DESIGN TEMP: 40-150°F [4-66°C]

P-0403 A/S  
DEMIN WATER FORWARDING SKID DUPLEX PUMP  
DESIGN CAPACITY: 115 gpm [435 lpm]  
DESIGN PRESSURE: 15-150 psig [103-1034 kPa]  
DESIGN TEMP: 40-110°F [4-43°C]

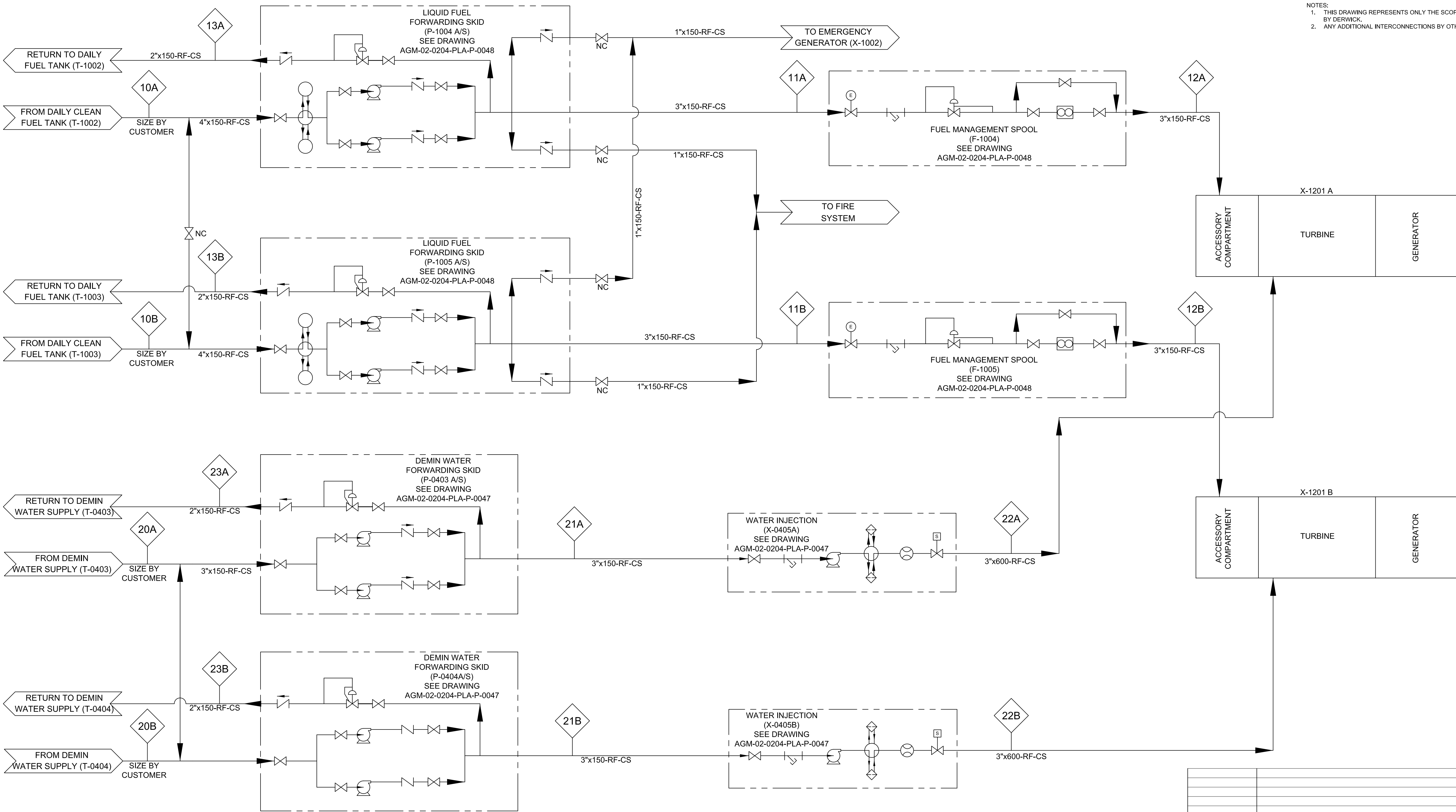
P-0404 A/S  
DEMIN WATER FORWARDING SKID DUPLEX PUMP  
DESIGN CAPACITY: 115 gpm [435 lpm]  
DESIGN PRESSURE: 15-150 psig [103-1034 kPa]  
DESIGN TEMP: 40-110°F [4-43°C]

X-0405A  
DEMIN WATER INJECTION SKID  
DESIGN CAPACITY: 115 gpm [435 lpm]  
DESIGN PRESSURE: 500 psig [3447 kPa]  
DESIGN TEMP: 40-110°F [4-43°C]

X-0405B  
DEMIN WATER INJECTION SKID  
DESIGN CAPACITY: 115 gpm [435 lpm]  
DESIGN PRESSURE: 500 psig [3447 kPa]  
DESIGN TEMP: 40-110°F [4-43°C]

IMPORTANTE  
ESTE PLANO FUE ELABORADO EN AUTOCAD V.2008  
CUALQUIER MODIFICACION REALIZADA EN CAMPO  
DEBERÁ SER NOTIFICADO A LA UNIDAD  
RESPONSABLE.  
QUEDA PROHIBIDO CORREGIR ESTE PLANO SIN  
AUTORIZACION DE ESTA UNIDAD.  
ALL DIMENSIONS IN BRACKETS [ ] ARE  
MILLIMETER ALL OTHER ARE INCHES

NOTES:  
1. THIS DRAWING REPRESENTS ONLY THE SCOPE OF WORK  
BY DERWICK.  
2. ANY ADDITIONAL INTERCONNECTIONS BY OTHERS.



LOCATION NUMBER		10A	10B	11A	11B	12A	12B	13A	13B	20A	20B	21A	21B	22A	22B	23A	23B
DESCRIPTION	UNITS	FROM DAILY CLEAN FUEL TANK T-1002	FROM DAILY CLEAN FUEL TANK T-1003	FROM FORWARDING PUMPS P-1004 A/S	FROM FORWARDING PUMPS P-1005 A/S	FROM FUEL MANAGEMENT SPOOL F-1004	FROM FUEL MANAGEMENT SPOOL F-1005	RETURN TO FUEL SUPPLY P-1004 A/S	RETURN TO FUEL SUPPLY P-1005 A/S	FROM TREATED WATER SUPPLY T-0403	FROM TREATED WATER SUPPLY T-0404	FROM DEMIN FORWARDING PUMPS P-0403 A/S	FROM DEMIN FORWARDING PUMPS P-0404 A/S	FROM WATER INJECTION X-0405A	FROM WATER INJECTION X-0405B	RETURN TO TREATED WATER SUPPLY P-0403 A/S	RETURN TO TREATED WATER SUPPLY P-0403 A/S
FLOW RATE	GPM [LPM]	150 [568]	150 [568]	108 [409]	108 [409]	108 [409]	108 [409]	42 [159]	42 [159]	115 [435]	115 [435]	50 [189]	50 [189]	50 [189]	50 [189]	65 [246]	65 [246]
TEMPERATURE	°F [°C]	81.14 [27.3]	81.14 [27.3]	81.14 [27.3]	81.14 [27.3]	81.14 [27.3]	81.14 [27.3]	81.14 [27.3]	81.14 [27.3]	81.14 [27.3]	81.14 [27.3]	81.14 [27.3]	81.14 [27.3]	81.14 [27.3]	81.14 [27.3]	81.14 [27.3]	81.14 [27.3]
PRESSURE	psig [kPa]	2 [14]	2 [14]	95 [655]	95 [655]	60 [414]	60 [414]	2 [14]	2 [14]	2 [14]	2 [14]	73 [503]	73 [503]	500 [3447]	500 [3447]	2 [14]	2 [14]
DENSITY	lbm/ft³ [kg/m³]	53.94 [864]	53.94 [864]	53.94 [864]	53.94 [864]	53.94 [864]	53.94 [864]	53.94 [864]	53.94 [864]	62.8 [1006]	62.8 [1006]	62.8 [1006]	62.8 [1006]	62.8 [1006]	62.8 [1006]	62.8 [1006]	62.8 [1006]
VISCOSITY	Po-s	0.004000	0.004000	0.004000	0.004000	0.004000	0.004000	0.004000	0.004000	0.000851	0.000851	0.000851	0.000851	0.000851	0.000851	0.000851	0.000851
TOTAL DISSOLVED SOLIDS	ppm	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30

23/05/11	ISSUED FOR CONSTRUCTION	SAB	CB	TK
15/03/11	ISSUED FOR REVIEW	SAB	CB	TK
REV.	FECHA	REVISIONES O MODIFICACIONES	DIBUJO	REVISO APROBO

REF. FABRICANTE	FABRICANTE	O/C:
-----------------	------------	------

AGM-02-0204-PLA-G-0060	FLOW & PROCESS SPECIFICATIONS	A	08/04/11
AGM-02-0204-PLA-P-0048	LIQUID FUEL SYSTEM P&ID	A	11/03/11
AGM-02-0204-PLA-P-0047	DEMIN WATER FORWARDING/INJECTION SYSTEM P&ID	A	15/03/11
N° DE DOCUMENTO	DESCRIPCION	REV.	FECHA
DOCUMENTOS DE REFERENCIA			

DERWICK	ProEnergy	CORPOELEC	Electricidad de Caracas	AGENCIA NACIONAL DE INGENIERIA Y PROTECCION	SENECA
AMPLIACIÓN DE LA CAPACIDAD DE GENERACIÓN Y TRANSPORTE DE ELECTRICIDAD EN LA ISLA DE MARGARITA					
FLOW AND PROCESS					
DUAL FUEL MOD. UNITS 298034 & 298035					
(DIAGRAM)					
PROYECTO N°:	REV:	ESCALA:	NONE	PLANO No:	
409-2956-1					
REVISADO: C. Brown	CALCULO:	FECHA:	23/05/11	AGM-02-0204-PLA-P-0009	
DIBUJO: S. Boerckel	REVISADO: J. Castillo	DISK N°			
APROBADO: T. Koontz	DIBUJO:	ESC./PLOTEO:			
ARCHIVO:	APROBADO: M. Monticelli	ARCHIVO:			

LÍNEA DE CORTE DE COPIA  
LÍNEA DE CORTE DE ORIGINAL