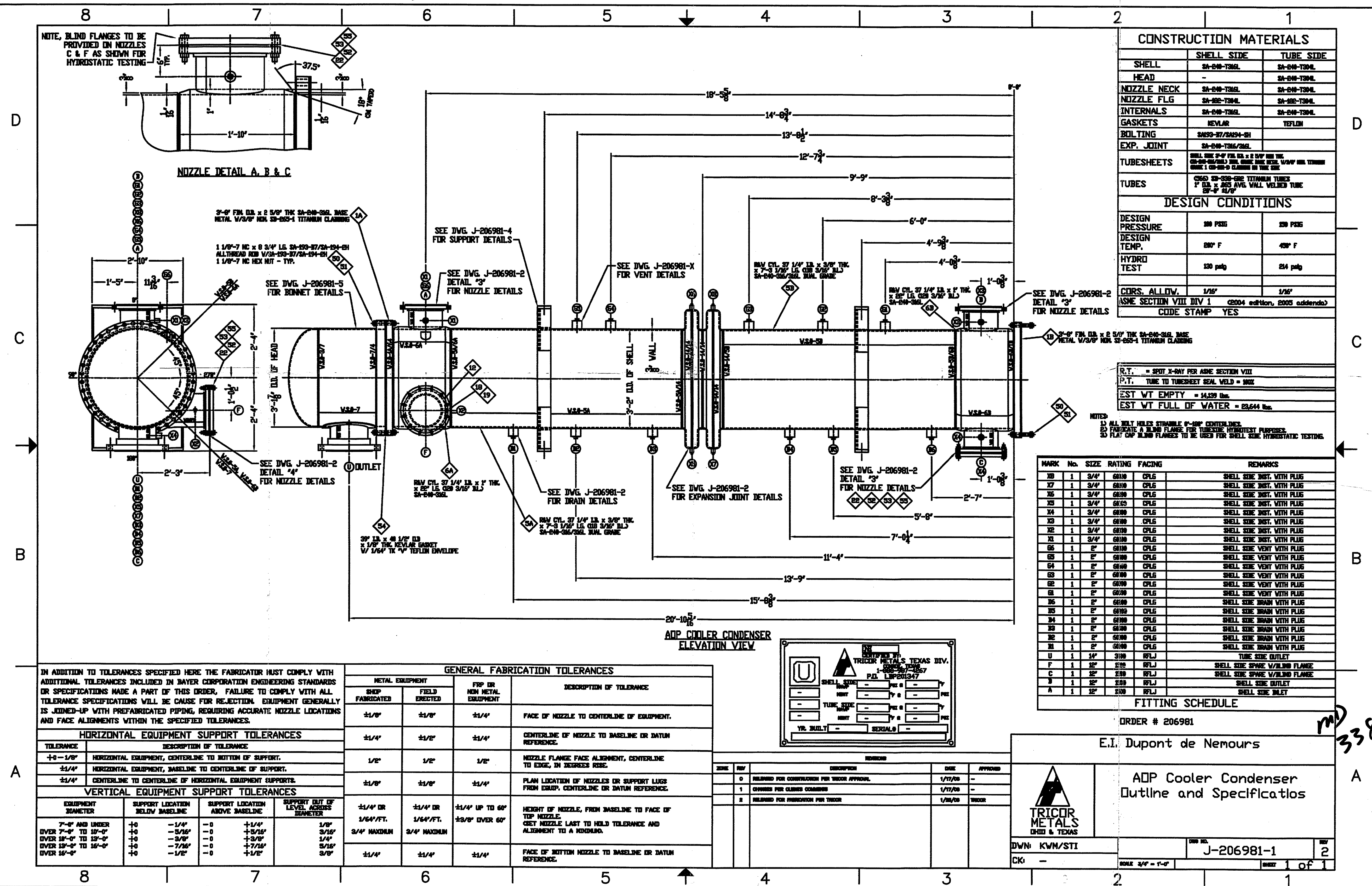
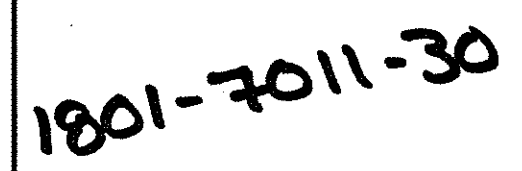




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8		7		6		5		4		3		2		1					
MK. NO.	QTY.	MATERIAL DESCRIPTION		MATERIAL		HEAT NO.		MTR PG. NO.		MK. NO.	QTY.	MATERIAL DESCRIPTION		MATERIAL		HEAT NO.		PG. NO.	
TUBESHEETS																			
1A	1	TUBESHEET 3'-8" FIN. O.D. x 2 5/8" MIN. THK. BASE METAL WITH 3/8" NOM. TITANIUM GRADE 1 CLADDING		SA-240-316L SB-265-1 CLAD						30	4	1/2" THK. x 3'-1 3/16" O.D.' BAFFLE		SA-240-316L					
1B	1	TUBESHEET 3'-8" FIN. O.D. x 2 5/8" MIN. THK. BASE METAL WITH 3/8" NOM. TITANIUM GRADE 1 CLADDING		SA-240-316L SB-265-1 CLAD						31	4	1/2" THK. x 3'-1 3/16" O.D.' BAFFLE W/NOTCH		SA-240-316L					
TUBES																			
2	566	1' O.D. x .065" AVG. WALL WELDED TUBE x 20'-0"± 1/8" LG.		SB-338-GR2						32	6	1/2" O.D. x 17'-5" LG. TIE RODS		SA-240-316L					
HEADS																			
3	1	3'-1 7/8" O.D. x .3125" MIN. THK. W/24 ELLIPTICAL HEAD W/1 1/2" S.F. & 37 1/2" O.S. WELD BEVEL		SA-240-304L						33	2	1/2" O.D. x 15'-4" LG. TIE RODS		SA-240-316L					
BODY FLANGES																			
4	1	3'-8" O.D. x 3'-1 1/4" I.D. x 3 5/16" FIN. MIN. THK. WITH (40) 1-1/4" HOLES ON 3'-5 3/4" B.C.D.		SA-182-304L						34	16	1/2"-13 NC HEX NUT		SA-240-316L					
CYLINDERS																			
5A	1	R&V CYL 37 1/4" I.D. x 3/8" THK. x 7'-3 1/16" LG. (118 3/16" D.L.)		SA-240-316/316L						35	12	3/4" O.D. x .065" WALL x 4'-3 7/8" LG. SPACERS		SA-240-316L					
5B	1	R&V CYL 37 1/4" I.D. x 3/8" THK. x 7'-3 1/16" LG. (118 3/16" D.L.)		SA-240-316/316L						36	2	3/4" O.D. x .065" WALL x 4'-1 1/16" LG. SPACERS		SA-240-316L					
6A	1	R&V CYL 37 1/4" I.D. x 1" THK. x 22' LG. (120 3/16" D.L.)		SA-240 316L						37	28	3/4" O.D. x .065" WALL x 2'-1 11/16" LG. SPACERS		SA-240-316L					
6B	1	R&V CYL 37 1/4" I.D. x 1" THK. x 22' LG. (120 3/16" D.L.)		SA-240-316L						38	6	3/4" O.D. x .065" WALL x 1'-10 7/8" LG. SPACERS		SA-240-316L					
7	1	R&V CYL 37 1/4" I.D. x 5/16" THK. x 21 11/16" LG. (118" D.L.)		SA-240 304L						SUPPORTS/LIFT LUGS									
8	1	R&V CYL 14" O.D. x 5/16" THK. x 10 7/16" LG. (43" D.L.)		SA-240 304L						39	2	1/2" THK. x 5' x 3'-3" O.D. x 3'-2" I.D. SUPPORT RING (121" D.L.)		SA-240-304L					
9	3	R&V CYL 12 3/4" O.D. x 3/8" THK. x 10 3/16" LG. (38 7/8" D.L.)		SA-240 316L						40	4	1" THK. x 5' x 2'-10" LG. BASE PLATE		SA-240-304L					
10	1	R&V CYL 12 3/4" O.D. x 3/8" THK. x 2'-0 9/16" LG. (38 7/8" D.L.)		SA-240 304L						41	8	1/2" THK. x 5' x 1'-4" GUSSETS		SA-240-304L					
11	1	1'-5" O.D. x 1'-1 3/8" I.D. x 5/16" MIN. THK. LAP RING		SA-240 304L						42	4	1/2" THK. x 1'-4" x 2'-8 1/2" LG. (CONTOUR TO RING)		SA-240-304L					
12	4	1'-3 5/8" O.D. x 1'-0" I.D. x 5/16" MIN. THK. LAP RING		SA-240 316L						43	4	1/2" THK. x 4' x 7 1/4" LG. GUSSET		SA-240-304L					
EXPANSION JOINTS																			
14	4	4'-5" MAJ. O.D. x 4'-4 1/4" MAJ. I.D. x 3'-1 1/4" MINOR. I.D. x 3 3/4" O.A. WIDTH x 3/8" NOM. MIN. THK. W/37 1/2" WELD BEVEL BOTH ENDS		SA-240-316/316L						BOLTING/GASKETS									
NOZZLES																			
15	1	14"-300# RF LJ FLANGE		SA-182-F304L						BOLTING TO BE LOW ALLOY CARBON STEEL									
16	1	1/4" THK. x 14 1/4" I.D. x 20 1/4" O.D. RE-PAD		SA-240-304L						50	80	1 1/8"-7. UNC x 8 3/4" LG. ALL THREAD ROD		SA193-B7/SA194-2H					
17	4	12"-150# RF LJ FLANGE		SA-182-316L						51	80	1 1/8"-7 UNC HEAVY HEX NUT		SA193-B7/SA194-2H					
18	8	3/4" 6000# N.P.T. FULL CPLG		SA-182-316L						52	32	7/8"-9 UNC x 4 1/2" LG. HEX BOLT		SA193-B7/SA194-2H					
19	8	3/4" 6000# N.P.T. PLUG		SA-182-316L						53	32	7/8"-9 UNC HEAVY HEX NUT		SA193-B7/SA194-2H					
20	12	2" 6000# N.P.T. FULL CPLG		SA-182-316L						54	2	39" I.D. x 40 1/2" O.D. x 1/8" THK. WITH 1/64" THK. V-TYPE TEFLON ENVELOPPE		TEFLON					
21	12	2" 6000# N.P.T. PLUG		SA-182-316L						55	2	1'-4" O.D. x 1'-2" I.D. x 1/8" THK. RING GASKET		TEFLON					
22	2	12"-150# BLIND FLANGE		SA-182-316L															
INTERNALS																			
25																			
26																			
27																			
 TRICOR METALS				CUSTOMER: E.I. Dupont de Nemours				 TRICOR METALS				CUSTOMER: E.I. Dupont de Nemours				ORDER # 206981			
AOP Cooler Condenser Bill of Material																			
TRICOR METALS OHIO & TEXAS DWN: KVM/STI CK: - DATE: 1/11/08 1/25/08 APPROVED: TRICOR QTY: 1 REV: 1 DESCRIPTION: RELEASED FOR CONSTRUCTION PER TRICOR APPROVAL RELEASED FOR FABRICATION PER TRICOR SCALE: 1/8" = 1'-0" SHEET: 1 of 1																			

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