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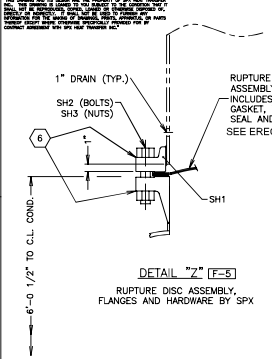
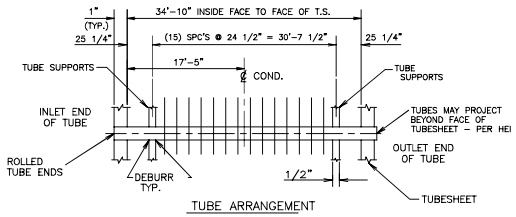


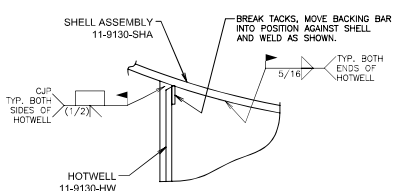
DETAIL "Z" F-5

RUPTURE DISC ASSEMBLY, FLANGES AND HARDWARE BY SPX

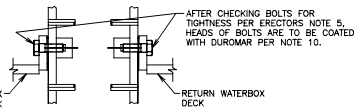


TUBE ARRANGEMENT

(4816) - 3/4" O.D. 24 BWG SB338/2 TITANIUM TUBES
LENGTH FOR ORDERING: 35'-0" (+1/4"/-0")
TUBES SUPPLIED AND SHOP INSTALLED BY SPX HEAT TRANSFER INC.
TUBESHEET MATERIAL: SB265/2 SOLID TITANIUM



4 DETAIL "F" D-1



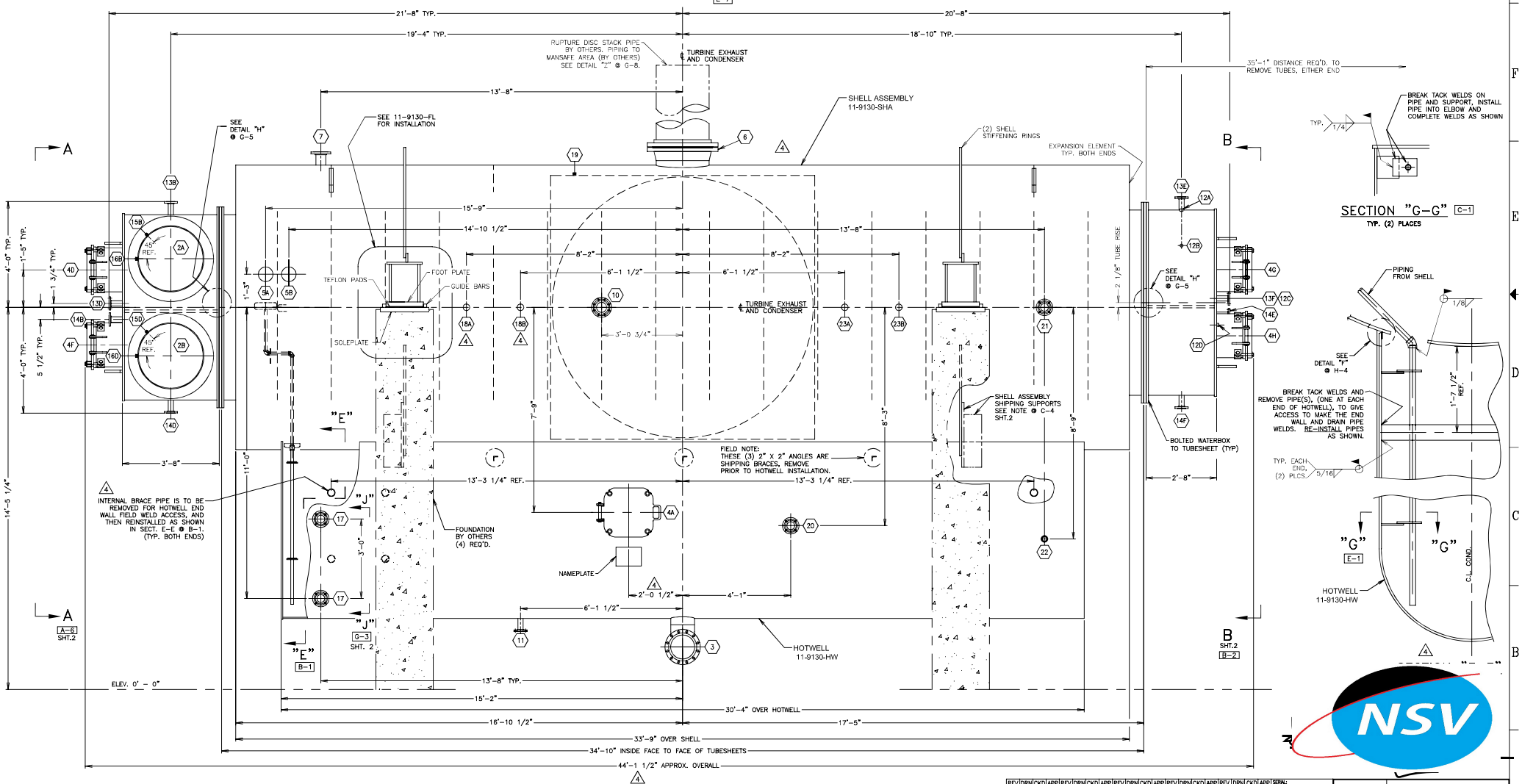
4 DETAIL "H" D-2 E-7

4 ERECTORS NOTES:

1. TEMPORARY SHIPPING OR ERECTION BRACES (MARKED YELLOW) ARE NOT TO BE REMOVED PRIOR TO FIELD ASSEMBLY, BUT AFTER ERECTION IS COMPLETE, EXCEPT AS NOTED.
2. ANY COMPONENT OR WELD JOINT (WHETHER NOTED OR NOT) MAY REQUIRE FIT, TRIM AND/ OR CLOSING BARS TO OBTAIN ALIGNMENT AND/OR ASSURE SATISFACTORY ASSEMBLY.
3. EACH FIELD ITEM IS MARKED WITH THE FIELD ITEM IDENTIFICATION EX.) SH1, SH2, W82 ETC. AND IS CROSS-REFERENCED ON THE COMPONENTS LIST.
4. SA36 WELD BACKING BARS ARE PROVIDED FOR HOTWELL (SIDE WALLS) TO SHELL, AND EXTENSION NECK TO TURBINE WELDS.
5. ALL BOLTED JOINTS MUST BE CHECKED FOR TIGHTNESS AT FIELD ASSEMBLY. THE BOLT TIGHTENING PROCEDURE AND BOLT TORQUE REQUIREMENTS FOR THE WATERBOX PERIPHERY AND DECK FLANGE BOLTS ALSO QUICK OPENING MANWAY COVER BOLTS ARE SPECIFIED IN SECTION 4 OF THE OPERATION AND MAINTENANCE MANUAL FOR THIS PROJECT.
6. TO ASSURE AN ON-SCHEDULE ERECTION PROGRAM, A PHYSICAL INVENTORY AND LOCATION SURVEY IS TO BE MADE OF ALL CONDENSER COMPONENTS BEFORE COMMENCING THE CONDENSER ERECTION.
7. CJP IN TAIL OF WELD SYMBOL DENOTES "COMPLETE JOINT PENETRATION."
8. FOR SUGGESTED FIELD ASSEMBLY SEQUENCE SEE SC- 27586
9. IT IS THE RESPONSIBILITY OF THE CONDENSER ERECTION ASSEMBLER TO PROTECT THE TUBES AT ALL TIMES: FROM MECHANICAL DAMAGE AND/OR WELD SPATTER.
10. AFTER CHECKING THE TIGHTNESS OF THE WATERBOX DECK BOLTS, THESE BOLT HEADS ARE TO BE PREPARED AND COATED WITH DUROMAR. INSTRUCTIONS FOR PREPARATION AND APPLICATION MUST CONFORM TO DUROMAR MANUFACTURERS RECOMMENDATIONS. A SUFFICIENT QUANTITY OF DUROMAR HAS BEEN FURNISHED BY SPX HEAT TRANSFER.
11. INSTALL RUPTURE DISC AND PIPE (BY OTHERS) AFTER HYDROTEST AND FINAL POSITIONING. RUPTURE DISC TO BE PIPED TO A MANSAFE AREA (BY OTHERS).

GENERAL ARRANGEMENT NOTES:

1. ALL WELDS SHOWN ARE FIELD WELDS.
2. FOR SERVICE CONNECTIONS SEE DRAWING: "11-9130-SCL"
3. MAXIMUM ALLOWABLE WATERBOX PRESSURE : 90 PSIG & FV.
4. FOR FOOT LOADS AND ARRANGEMENTS, SEE DRAWING: "11-9130-FL"
5. WATERBOX TO TUBE SHEET JOINTS ARE MADE WITH GASKETS.
6. APPROX. WEIGHTS:
   OPERATING: 224,000 LBS.
   WATER TEST: 299,000 LBS.
   DRY: 123,500 LBS.
7. IN ORDER TO MEET THE PROJECT SCHEDULE, WE REQUIRE THAT ENGINEERING DESIGN INFORMATION AND/OR CHANGES TO BE FINALIZED BY MAY 9, 2011, THE DESIGN CUT-OFF DATE FOR THIS PROJECT.
8. SERVICE CONNECTIONS SHOULD BE LOCATED BETWEEN SUPPORT PLATES & STIFFENING RIBS INDICATED BY DASHED LINES IN MAIN VIEWS OF THIS DRAWING. SEE DOCUMENT SC-25561 FOR ADDITIONAL INFORMATION ON CONNECTION LOCATION.
9. DO NOT SCALE. ADDITIONAL DIMENSIONS WILL BE FURNISHED UPON REQUEST.
10. UNLESS OTHERWISE SPECIFIED, SPX DOES NOT FURNISH PARTS SHOWN IN PHANTOM LINE. - - - - - - - -
11. ALL BOLTS STRADDLE HORIZONTAL AND VERTICAL CENTER LINES OF FLANGES.
12. UNLESS OTHERWISE NOTED, ALL CONNECTIONS ARE LOCATED TO ± 1/4".
13. F.S. = FAR SIDE; N.S. = NEAR SIDE; F.E. = FAR END; N.E. = NEAR END.



TOLERANCES
1. TOLERANCE ON THE LOCATION OF ALL CONNECTIONS IS ± 1/4".
2. UNLESS OTHERWISE SPECIFIED, ALL OTHER DIMENSIONS ARE NOMINAL AND MAY VARY IN ACCORDANCE WITH STANDARD MANUFACTURING AND/OR ENGINEERING DEPARTMENT REQUIREMENTS IN ORDER TO ASSURE PROPER FIELD ALIGNMENT AND DESIGN.

REV	DRN	CKD	APP	DATE	DESCRIPTION
5	EFW	TRK	FSA	DATE: 12/13/11	NO CHANGES TO THIS SHEET.
4	TRK	EFW	CKP	DATE: 10/26/11	ADDED CONNS. 18A/B @ D-8, DEL'D. (1) CONN. 19 @ F-4, RELOC'D. CONN. 4A @ C-5, ADDED ALL DIRECTORS INFO., NOTES, WELDS ETC. O.A.L. WAS 44'-3".
3	TRK	TRK	CKP	DATE: 8/25/11	ADDED CONNS. 23A & 23B TO SHELL AT D-4.
2	EFW	TRK	CKP	DATE: 07/22/11	ADDED CONN'S. WITH DIM'S. IN HOTWELL AND SHELL RECONFIGURED CONN. 3 @ B-5.
1	ETW	TRK	CKP	DATE: 06/23/11	ADDED WATER BOX CONNS., ROTATED CIRC. WATER NOZZLES, OVER SHELL WAS 33'-10", APPROX. O.A.L. WAS 43'-0 1/4"

SERIAL: 11-9130
DATE: 4-24-11
SCALE: 3/4"=1'-0"
DRN: RJK
CHK: TRK
ENG: CKP
SHT SIZE: E
COND. INFO: 44P-EC33

SPX HEAT TRANSFER | ECOLAIRE Condensers BETHLEHEM, PA 18017

TITLE: CONDENSER GENERAL ARRANGEMENT AND ERECTORS ASSEMBLY

DWG. NO. 11-9130-GA | 1/3 | REV 5

NSV