



CRS SIRRINE, INC.  
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 APPROVED FOR INSTALLATION  
 APPROVED FOR COMPLETION  
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 APPROVED FOR GOD  
 APPROVED FOR ALL

RECEIVED  
 CRS SIRRINE, INC.  
 GREENVILLE, S. C.  
 EQUIP. Pkg.  
 OCT 18 1987

| CONNECTION SCHEDULE |         |            |                  | S=SHELL SIDE                | T=TUBE SIDE                       | CONNECTION SCHEDULE |         |        |                  | S=SHELL SIDE         | T=TUBE SIDE                            |
|---------------------|---------|------------|------------------|-----------------------------|-----------------------------------|---------------------|---------|--------|------------------|----------------------|--|
| SYMBOL              | NO REQD | SIZE       | TYPE             | SERVICE                     | REMARKS                           | SYMBOL              | NO REQD | SIZE   | TYPE             | SERVICE              | REMARKS                                |
| S1                  | 1       | 191" x 89" | BUTT WELD        | STEAM INLET                 | W / LANDING BAR & IMP DUMMY TUBES | S16                 | 1       | 1/2"   | NPT (3000#)      | VACUUM GAUGE         |  |
| S2                  | 1       | 16"        | 150# ANSI (R.F.) | CONDENSATE OUTLET           | W/VORTEX BREAKER                  | S17                 | 1       | 3/4"   | NPT (3000#)      | VENT                 | PLUGGED                                |
| S3                  | 1       | 4"         | 150# ANSI (R.F.) | AIR OFF-TAKE                | FOR R.H. TUBE BANK                | S18                 | 1       | 3/4"   | NPT (3000#)      | DRAIN                | PLUGGED                                |
| S4                  | 1       | 4"         | 150# ANSI (R.F.) | AIR OFF-TAKE                | FOR L.H. TUBE BANK                | S19                 | 2       | 20"    | GRAHAM STD.      | MANHOLE              | W/HINGED COVER                         |
| S5                  | 1       | 4"         | 150# ANSI (R.F.) | RECYCLE (START-UP)          | BAFFLED                           | S20                 | 1       | 2 1/2" | 150# ANSI (R.F.) | TURBINE LEAKOFF      | BAFFLED                                |
| S6                  | 1       | 4"         | 150# ANSI (R.F.) | RECYCLE (NORMAL OPERATION)  |                                   | T1                  | 2       | 36"    | 150# (F.F.)      | WATER INLETS         | (32) 1 5/8" DIA. HOLES ON 42 3/4" B.C. |
| S7                  | 2       | 3"         | 150# ANSI (R.F.) | SPARES                      | BAFFLED                           | T2                  | 2       | 36"    | 150# (F.F.)      | WATER OUTLETS        | (32) 1 5/8" DIA. HOLES ON 42 3/4" B.C. |
| S8                  | 2       | 3"         | 150# ANSI (R.F.) | SPARES                      |                                   | T3                  | 4       | 3/4"   | NPT (150#)       | GAUGE GLASS          |  |
| S9                  | 2       | 2"         | 150# ANSI (R.F.) | LIQUID LEVEL CONTROL        |                                   | T4                  | 12      | 3/4"   | NPT (150#)       | INSTRUMENT CONN'G'S. | PLUGGED                                |
| S10                 | 1       | 2 1/2"     | 150# ANSI (R.F.) | CONDENSER FILL              |                                   | T5                  | 4       | 1"     | NPT (150#)       | VENT                 | PLUGGED                                |
| S11                 | 2       | 2"         | 150# ANSI (R.F.) | HOTWELL PUMP PRIMING        |                                   | T6                  | 2       | 2"     | NPT (150#)       | DRAIN                | PLUGGED                                |
| S12                 | 1       | 1 1/2"     | SW (3000#)       | INLET FROM INTER-COND. TRAP |                                   |                     |         |        |                  |                      |  |
| S13                 | 1       | 1 1/2"     | SW (3000#)       | INLET FROM AFTER-COND. TRAP |                                   |                     |         |        |                  |                      |  |
| S14                 | 2       | 3/4"       | NPT (3000#)      | GAUGE GLASS                 |                                   |                     |         |        |                  |                      |  |

NOTES:  
 1) BOLT HOLES STRADDLE CL'S.  
 2) ALL N.P.T. CONNECTIONS ARE FEMALE TAPERED PIPE THREAD.  
 3) CONNECTION FLANGES ARE ANSI STD. DRILLING & THICKNESS UNLESS OTHERWISE NOTED.  
 4) EXHAUST CASING PROVIDED WITH ATMOSPHERIC RELIEF DIAPHRAM TO RUPTURE AT 5-6 PSIG & GIVE FULL RELIEF PASSING 460,800 LBS OF STEAM AT A PRESSURE NOT EXCEEDING 2 PSIG.  
 5) DIMENSIONAL TOLERANCES UNLESS OTHERWISE NOTED: TEMA STD.  
 6) EJECTOR PACKAGE IS NOT MOUNTED ON SURFACE CONDENSER.  
 7) SACRIFICIAL ANODES IN WATERBOX.  
 8) DESIGN ABSOLUTE PRESS. IS ONLY GUARANTEED AT CONDENSER STEAM INLET. HIGH VELOCITY IN THE STEAM LINE WILL CAUSE A PRESS. DROP, RESULTING IN A HIGHER ABSOLUTE PRESS. AT THE TURBINE DISCH.

DRAWING LIST:  
 EJECTOR PACKAGE : D-36415-11  
 ACCESSORY LIST : A-36415-21

| EST'D. WGT'S.   |            |            |            |
|-----------------|------------|------------|------------|
|                 | EMPTY      | OPERATING  | FLOODED    |
| FIXED SUPPORT   | 82000 LBS  | 120000 LBS | 187000 LBS |
| SLIDING SUPPORT | 75000 LBS  | 111000 LBS | 176000 LBS |
| TOTAL           | 157000 LBS | 231000 LBS | 363000 LBS |

|            | M.A.W.P. (P.S.I.G.) | DESIGN TEMP (°F) | HYDRO TEST PRESS. (P.S.I.G.) | CORR. ALLOW. (INCHES) |
|------------|---------------------|------------------|------------------------------|-----------------------|
| SHELL SIDE | F.V. & 15           | 250              | FLOODED                      | 1/32 *                |
| TUBE SIDE  | 125                 | 150              | 187.5                        | 1/16                  |

① CARBON STEEL PRESSURE PARTS. \* 1/16" C.A. ON SHELL SIDE OF T.S.

| REV. | DESCRIPTION                       | MADE | CHKD | DATE    | SCALE | DSGN | DRWN | CHKD | APPD | DATE    | DWG. NO.  | REV. |
|------|-----------------------------------|------|------|---------|-------|------|------|------|------|---------|-----------|------|
| C    | WAS 4 1/4"                        |      | AM   | 10/2/87 |       |      |      |      |      |         |           |      |
| B    | REV'D PER CUST PRINT DATED 4/1/87 |      | AP   | 4/16/87 |       |      |      |      |      |         |           |      |
| A    | REV'D PER CUST PRINT DATED 3/6/87 |      | EJ   | 3/19/87 |       |      |      |      |      |         |           |      |
| 0    | ORIGINAL ISSUE                    |      |      |         |       |      |      |      |      |         |           |      |
| REV. | DESCRIPTION                       | MADE | CHKD | DATE    | SCALE | DSGN | DRWN | CHKD | APPD | DATE    | DWG. NO.  | REV. |
|      |                                   |      |      |         | 1:32  | AMB  | WL   | AP   | LEW  | 2/17/87 | D-36415-1 | C    |

GRAHAM MANUFACTURING CO., INC.  
 20 FLORENCE AVE. BATAVIA, NEW YORK

NO. 3 TURBINE CONDENSER  
 50 MW CONDENSING OPTION  
 (CRS SIRRINE JOB NO. P-2386)