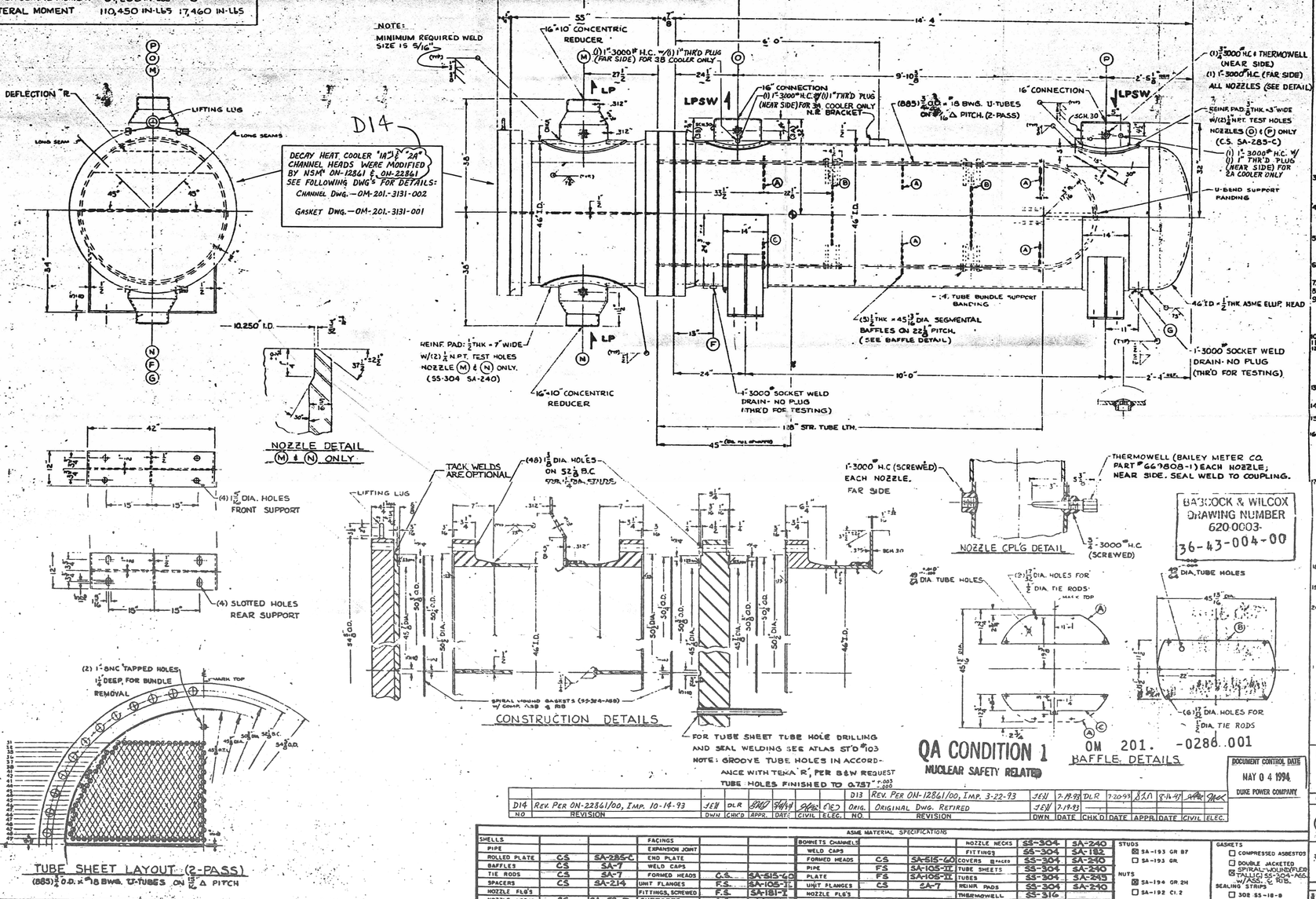
RELIEF REQUEST #10-ON-001

SEISMIC LOAD

	NON-SLOTTED SUPPORT	SLOTTED SUPPORT
VERTICAL	36,000 LBS	5,700 LBS
LATERAL	4,700 LBS	743
LONGITUDINAL	5,445 LBS	0
LONGITUDINAL MOMENT	57,300 IN-LBS	0
LATERAL MOMENT	110,450 IN-LBS	17,460 IN-LBS



NOTES

1. CONSTRUCTION TO COMPLY WITH ASME CODE SECTION III CLASS "C" & SEC. VIII PARA UW-2(a) FOR TUBE SIDE; SEC. VIII FOR SHELL SIDE. ALSO TEMA "R". ALL PER LATEST EDITION AT CONTRACT DATE.
2. NAME PLATE STAMPING: SEE NOTE 17

ATLAS INDUSTRIAL MFG. CO. CLIFTON, N.J.
NAT'L. BD. (SEE NOTE 17)
SERIAL (SEE NOTE 17)
YEAR DEL. YEAR
SHELL 150 PSI AT 300 °F
TUBES 570 PSI AT 300 °F
JACKET PSI AT °F
B & W RQ. NO: SEE BELOW (NOTE 17)
CONTRACT NO: SEE BELOW (NOTE 17)
B&W TAG NO. SEE BELOW (NOTE 17)

3. TEST TEMP 60°F SHELL SIDE TUBE SIDE
TEST PRESSURE 225 PSI 675 PSI
CORROSION ALLOW. 0" 0"
4. WEIGHTS:
EMPTY — 24400 LBS.
FULL OF WATER — 36300 LBS.
5. SANDBLAST: ALL EXT. C.S. SURFACES PER SSPC-SP6-63T
PAINT: ALL C.S., PRIME COAT CARBO ZINC 11-3 MILS DRY FILM. FINISH COAT, PHENOLINE 305-4 MILS DRY FILM.
6. TUBE HOLE DRILLING AND SEAL WELDING TO BE IN ACCORDANCE WITH ATLAS STD #109 (SEE TUBE SHEET DETAIL) (ONLY HALOGEN TEST)
7. STRESS RELIEVE: NO
8. RADIOGRAPHY: TUBE SIDE 100% - ALL BUTT.
9. PRIOR TO HYDRO-TEST THE SHELL SIDE IS TO BE AIR TESTED TO 25 PSIG. THE TUBE SEAL WELDS ARE TO RECEIVE SOAP BUBBLE TEST. WATER FOR HYDRO TEST TO HAVE CHLORIDE CONTENT NOT EXCEEDING 0.1 PPM.
10. CUSTOMER'S INSPECTION: REQ'D.
11. TUBES TO BE EDDY CURRENT TESTED PER ASTM SA-450
12. ONE DESICCANT (NON-CHLORIDE) ATTACHED TO INSPECTION SHIPPING COVERS ON "INLET" & "OUTLET" NOZZLES ONLY AND SEALED PRIOR TO SHIPPING. TAG UNIT NOTING EACH NOZZLE COVER THAT CONTAINS DESICCANT BAGS: "CAUTION - REMOVE DESICCANT BAGS BEFORE USE".
13. PERFORMANCE: HEAT LOAD 60 × 10⁶ BTU/HR. SURFACE: 3940 SQ. FT.
14. SEE SEISMIC CALCULATIONS FOR SUPPORT LOADS.
15. CLEANING TO BE IN ACCORDANCE WITH ATLAS STANDARD #102 REVISED 9-27-68.
16. PRIOR TO TUBE HOLE DRILLING THE FACE OF THE TUBE SHEET IS TO BE EXAMINED IN ACCORDANCE WITH ATLAS STD #101 LIQUID PENETRANT METHOD, INSPECTION & ACCEPTANCE BY INTERNAL QUALITY CONTROL.
17. NAME PLATE STAMPING.

JOB NO.	CONTRACT NO.	SER. NO.	NAT. BD.	TAG NO.
1416-1	620-0003,4	884	734	1LP-C1A
1416-2	"	885	735	1LP-C1B
1416-3	"	886	736	2LP-C1A
1416-4	"	887	737	2LP-C1B

18. TUBE SEAL WELDS TO BE LIQUID PENETRANT EXAMINED IN ACCORDANCE WITH ATLAS STD #101.
19. INTERNAL SURFACE OF CHANNEL TO BE SANDBLASTED TO CLEAN WHITE METAL AFTER FABRICATION.
20. WEIGHT OF SHELL 5,477 LBS
" OF TUBE BUNDLE 12,913 LBS
" OF CHANNEL 3,410 LBS
" OF CHANNEL COVER 3,200 LBS

[redacted]

CUSTOMER: BABCOCK & WILCOX COMPANY
P.O. NO. 80471 & 22 CONTRACT NO. 620-0003,4
UNITS REQUIRED: SIX
ATLAS JOB NO. 1416-1,2,3,4

BABCOCK & WILCOX DRAWING NUMBER 620-0003 36-43-002

APPROVED DUKE POWER CO. MAY 04 1994

DOCUMENT CONTROL DATE MAY 04 1994 DUKE POWER COMPANY

NO	REVISION	DWN	CHK'D	APPR.	DATE	CIVIL	ELEC.	NO.	REVISION	DWN	DATE	CHK'D	DATE	APPR.	DATE	CIVIL	ELEC.
D14	REV. PER ON-22861/00, IMP. 10-14-93	JEH	DLR					D13	REV. PER ON-12861/00, IMP. 3-22-93	JEH	7-19-93	DLR	7-20-93		8-14-93		
								D12	ORIGINAL DWG. RETIRED	JEH	7-19-93	—					

ASME MATERIAL SPECIFICATIONS

SHELLS				FACINGS				BONNETS CHANNELS				NOZZLE NECKS	SS-304	SA-240	STUDS	☒ SA-193 GR B7 ☐ SA-193 GR.	GASKETS ☐ COMPRESSED ASBESTOS ☐ DOUBLE JACKETED ☒ SPIRAL-WOUND/FLEXITALLIC SS-304-A88 W/ ASG. & R18.
PIPE				EXPANSION JOINT				WELD CAPS				FITTINGS	SS-304	SA-182	NUTS	☒ SA-194 GR 2H ☐ SA-192 CL 2	SEALING STRIPS ☐ 308 SS-18-8
ROLLED PLATE	CS	SA-285-C		END PLATE				FORMED HEADS	CS	SA-515-60		COVERS & SPACER	SS-304	SA-240			
BAFFLES	CS	SA-7		WELD CAPS				PIPE	FS	SA-105-II		TUBE SHEETS	SS-304	SA-240			
TIE RODS	CS	SA-7		FORMED HEADS	C.S.	SA-515-60		PLATE	FS	SA-105-II		TUBES	SS-304	SA-249			
SPACERS	CS	SA-214		UNIT FLANGES	F.S.	SA-105-II		UNIT FLANGES	CS	SA-7		REINF. PADS	SS-304	SA-240			
NOZZLE FLG'S				FITTINGS, SCREWED	F.S.	SA-181-2		NOZZLE FLG'S				THERMOWELL	SS-316				
NOZZLE NECKS	CS	SA-53-B		SUPPORTS	C.S.	SA-36											

ATLAS INDUSTRIAL MANUFACTURING CO. 81 SOMERSET PLACE CLIFTON, N. J.

#46-128; 3940 DECAY HEAT COOLERS

SCALE	MADE	DATE	CHK.	APPR.	DRAWING NO.	REV.
3/8"=1'-0"	A.J.M	4-2-68			D-1738-8	D14

D-01

DDD-5-5

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