



Anchor Details: Feet will be anchored to 3/4" thickness stainless steel support plate by field welding.

Welds to be 1/4" Fillet welds.

CUSTOMER:	Bechtel
QUOTE NUMBER:	16-4530-JS
CUSTOMER ORDER NO:	24590-CM-POA-MEP0-00006
WCR JOB NO:	N2032F
WCR SERIAL NO:	3334
DESIGN / CONSTRUCTION:	ASME SECT.VIII, DIV. 1, 2015 EDITION, 11A ADDENDA
INSPECTION:	ASME SECT.VIII, DIV. 1, 2015 EDITION, 11A ADDENDA
STAMPING:	ASME
SURFACE PREPARATION:	Bechtel Spec – 24590-WTP-3PS-AFPS-T0001; Rev.5
PAINT (EXT. CARBON STEEL)	Bechtel Spec – 24590-WTP-3PS-AFPS-T0001; Rev.5
ITEM NO:	Feed LAW Effluent Cooler – 24590-BOF-ME-DEP-HX-00001

NOTES:

- OVER-PRESSURE PROTECTION MUST BE PROVIDED BY OTHERS PRIOR TO PLACING THE VESSEL IN SERVICE.
- PULSATING PUMPS MUST HAVE ADEQUATE PULSATION DAMPENERS PROVIDED.
- BOLT HOLES STRADDLE CENTERLINES.
- MARK ALL CONNECTIONS WITH FLOW LABELS.
- ALL CONNECTIONS ARE ASME STANDARD DRILLING.
- 304 STAINLESS STEEL SHROUD.
- NDE: NONE
- HEAT TREATING REQUIREMENT: NONE

NOZZLE SCHEDULE

SIZE: 3" Hot Side / 4" Cold Side

TYPE: STUDDED

NOZZLE*	SIZE	DESCRIPTION
H4 (N03)	4"	CS INLET
H1 (N04)	4"	CS OUTLET
H2 (N01)	3"	HS INLET
H3 (N02)	3"	HS OUTLET

*Buyer Nozzle Numbers in parentheses.

Please note that source, special nuclear, and byproduct materials, as defined in the Atomic Energy Act of 1954 (AEA) are regulated at the U. S. Department of Energy (DOE) facilities exclusively by DOE acting pursuant to its AEA authority. DOE asserts that pursuant to AEA, it has sole and exclusive responsibility and authority to regulate source, special nuclear, and byproduct materials at DOE-owned nuclear facilities. Information contained herein on radionuclides is provided for process description purposes only.

PLATE HEAT EXCHANGER DATA

FRAME LENGTH (L) (in):	42.0
TIGHTENING DIM. (A) (in):	17.98
NUMBER OF PLATES:	145
TOTAL SURFACE AREA (ft ²):	369.4
MAX NUMBER OF PLATES:	170
MDMT/DESIGN TEMP (°F):	-20/266
DESIGN PRESSURE (PSI):	225
TEST PRESSURE (PSI):	292.5
FLUID VOLUME (ft ³):	3.36
NUMBER OF PASSES: (HOT/COLD SIDE)	1/1
ESTIMATED WEIGHT (lb): (EMPTY/FLOODED)	1,336/1,546

PLATE HEAT EXCHANGER MATERIAL LIST

PART NAME	MATERIAL	SPEC.NO.
FIXED COVER	C.S. NORMALIZED	SA516-G70
MOVABLE COVER	C.S. NORMALIZED	SA516-G70
CARRYING BARS	CARBON STEEL	C1018 Zinc Plated
NOZZLE - H.S.	STUDDED 316L Lined	SA240-316L
NOZZLE - C.S.	STUDDED 316L Lined	SA240-316L
PLATES	316L / 0.6mm	SA240-316L
GASKETS	FDA-NBR	WCR-90
BOLTING	ALLOY STEEL	SA-193-B7, SA-194-2H

WCR INCORPORATED

2377 Commerce Center Blvd. Suite B Fairborn, OH 45342

A425B-Studded-Plate Heat Exchanger

SCALE	MADE	APPROVED	DATE	DWG.NO.	REV
1:32	MRK	JS	03/03/2017	D3334	0