(1) ~~J.F.D.~~
(2) SSC.
(3) GGS/P.F.

UNION CARBIDE CORPORATION

PROJECT FILE COPY

PURCHASE SPECIFICATIONS

File No. 404-3921

Date: December 22, 1971

Type equipment:	1,046 sq ft tube area, heat exchanger, fixed tube sheet
Item No.:	S2-E-3921
Number required:	One (1)
Charge:	930-3383 938-4171
Purchase Order No.:	511-882083
Manufacturer:	Superior Welding Co.
Property No.:	6376-28356
Drawings,	
Mechanical Specifications:	SK-4171-3921 dated 10-13-71
Tube Layout:	SK-33823-AOF dated 11-10-71
Heat Exchanger Mechanical Design Data:	Drawings A, B, and C dated 10-29-71
Support Detail:	Drawing D dated 11-1-71

RECEIVED
JAN 4 1972
J. F. D.

NOTE:

The equipment shall be in accordance with these specifications and the following:

A. Attachments, attached hereto and hereby made a part hereof:

Supplemental Provisions and Instructions, Form 93838-267 (Rev. 7-71)
Welded Pressure Joint Requirements, Form 93829-28 dated 11-1-71
Specifications for Shop Coating External Surfaces, Form 938-400B (Rev. 4-10-70)

B. Specifications and standards referenced herein and hereby made a part hereof:

COP-1-69 - General Requirements for Materials, Design, Fabrication, Inspection, and Testing of Welded Pressure Vessels
COP-B1-69 - Material Specifications for Threaded Alloy-Steel Fasteners
Fabrication Notes and Dimensional Tolerances, Form EQ-182 dated 8-15-68
Nameplate Mounting Clip, Form EQ-15A dated 8-1-68

BRH:jgh

Attachments
Form 938-400B (Rev. 4-10-70)
Form 93829-28 dated 11-1-71
Dwgs A, B, C, and D
SK-33823-AOF dated 11-10-71
Form 93838-267 (Rev. 7-71)
SK-4171-3921 dated 10-13-71

PLAINTIFF'S EXHIBIT 76005.00

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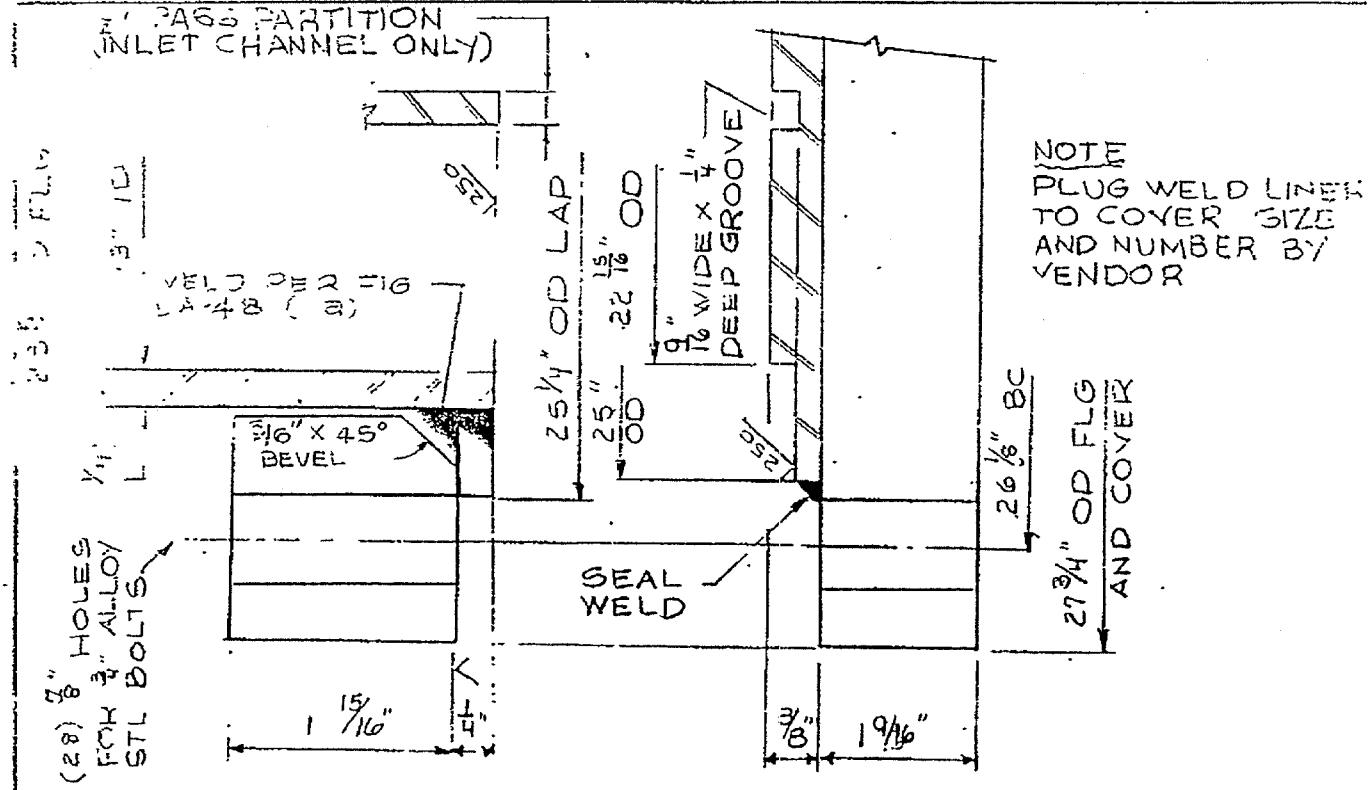
THE DESIGN IS BASED ON THE INFORMATION LISTED IN THE TABLE BELOW. ALTERNATIVE DESIGNS MAY BE SUBMITTED AND WILL BE CONSIDERED IF ALL DESIGN INFORMATION IS SUBMITTED WITH QUOTATION. THE DESIGN INCLUDES THE BOLTING MOMENT, GASKET RIB AREA, AND 1/16" CORROSION ALLOWANCE ON SHELL [redacted] SIDE.

HEAT EXCHANGER MECHANICAL DESIGN DATA

COMP. NO.	COMPONENT	MATERIAL	MAX. ALLOWABLE STRESS @ 100° F	MIN. THICKNESS
3	CHANNEL	SA-240, 304 SS	18,700 psi	.25"
13	CHANNEL FLANGE	SA-181, GR II	17,500 psi	1.9375"
5 & 6	TUBESHEET			
13	SHELL FLANGE			
1	SHELL			
	CHANNEL HEAD 2:1 ELLIP. CODE F. & D.			
	SHELL HEAD 2:1 ELLIP. CODE F. & D.			
	CHANNEL COVER	3" 304 SS ON SA-181-GR II	17,500 psi	SEE DET
16	GASKETS	25 3/8" OD x 23 7/8" ID x 1/16" THK COMPRESSED ASBESTOS FURNISH INLET CHANNEL GASKETS WITH 1/2" WIDE PASS RIBS.		



INLET CHANNEL COVER AND TYP LAP FLG DETAIL

FLANGE-TUBESHEET JOINT DETAILS

DWG A

ITEM NO. 52-E-3921
BY: FJM
DATE: 10-29-71

FORM [redacted]-30 (SHEET 1)

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