

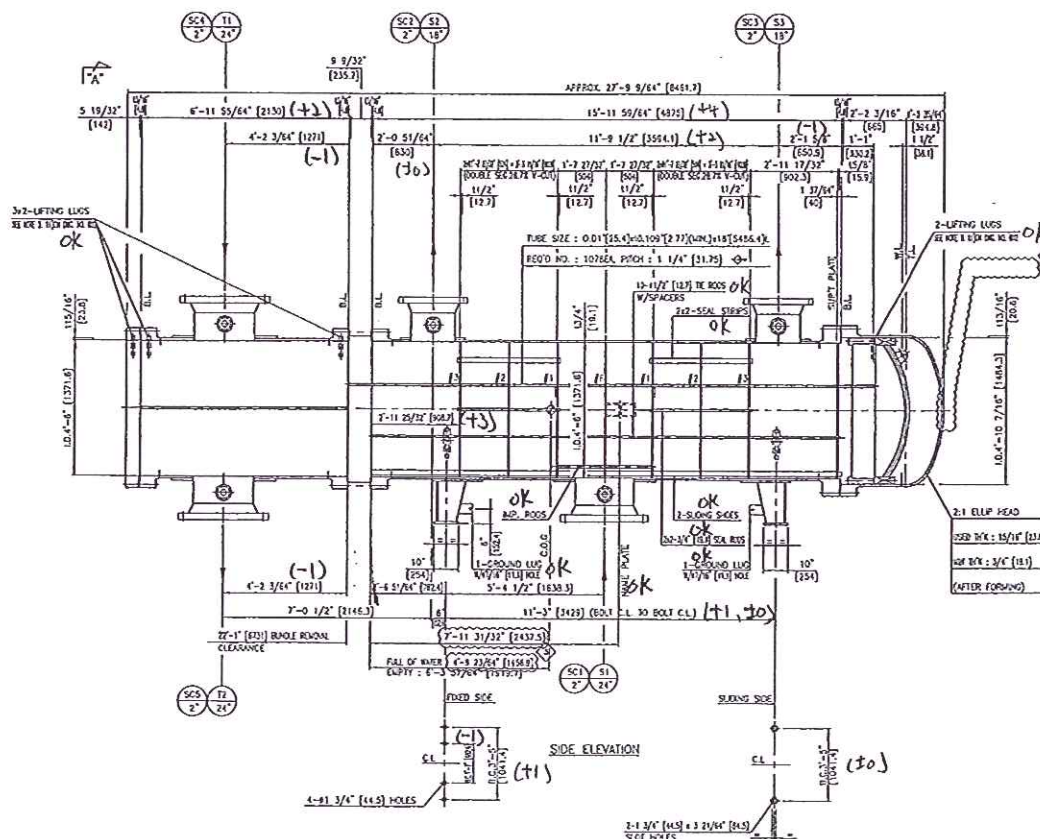
DAEKYUNG MACHINERY & ENGINEERING CO., LTD.

105821

ORDER NO.	U2007-09-2739	CUSTOMER	SUNCOR
ITEM NO.	205E-422	ITEM NAME	DEPROPANIZER SIDE REBOILER
DWG. NO.	DK2007-235-001 RE.3	PCS/STEP NO.	PCS2739-12-19-10

DIMENSION REPORT AND VISUAL INSPECTION

DATE	2008.08.29	UNIT	mm
RESULT OF INSPECTION			
DIMENSIONAL	VISUAL	NOZZLE ORIENTATION	
ACCEPT	ACCEPT	-	



G-S Kim
8/29/08

Reviewed by
witnessed by

8/29/08
AI/MSB

☒ WITNESSED BY / ☐ REVIEWED BY

APPROVED BY

REVIEWED BY

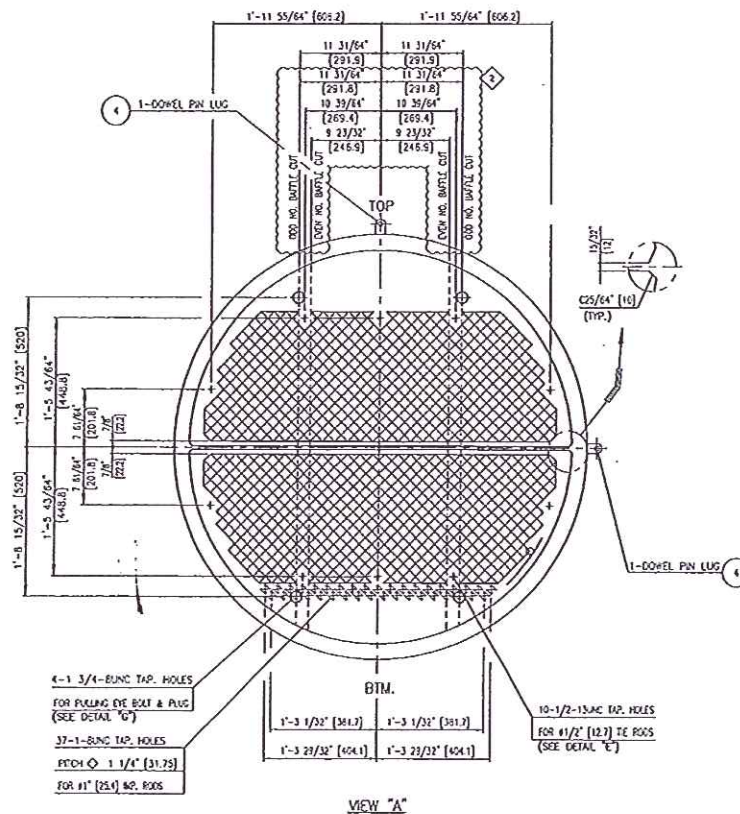
PREPARED BY

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A-5 kin
8/29/88

Reviewed by
witnessed by

AI/HSB

☒ WITNESSED BY / ☐ REVIEWED BY

APPROVED BY

REVIEWED BY

PREPARED BY

105821

DAEKYUNG MACHINERY & ENGINEERING CO., LTD.

II

RUBBING OF NAMEPLATE

PROJECT NAME	VOYAGEUR UPGRADER (VU)	ITEM NO.	205E-422
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SUNCOR ENERGY INC.			
SERVICE	DEPROPANIZER SIDE REBOILER		
ITEM NO.	205E-422	CRN NO.	U5680-2
MANUF. SERIAL No.	DK2007-235	PRN NO.	2
PURCHASE ORDER No.	087-PO205-E-3-1AC	YEAR BUILT	2008
TUBE SURFACE AREA	4625.7 sq ft	EMPTY WEIGHT	69200 lbs
RULES/CODE	ASME SEC. VIII DIV. 1 (2001 ED.) & 2006 ADD. 1 & 2 APR. 660.7 (1st ED.) TEMA (6th) R		
CERTIFIED BY	DAEKYUNG MACHINERY & ENGINEERING CO., LTD.		
	SHELL SIDE	TUBE SIDE	
MIN. REQ'D DESIGN PRESS. (INT./EXT.)	345 / F.V. psig	445 / F.V. psig	
MIN. REQ'D DESIGN TEMP. (INT./EXT.)	650 / 400 F	650 / 400 F	
HYDRO. TEST PRESS. (FIELD/SHOP)	466 / 513 psig	611 / 613 psig	
M.A.W.P.	358 @ 650 psig @ F	470 @ 650 psig @ F	
M.A.E.P.	F.V. @ 400 psig @ F	F.V. @ 400 psig @ F	
M.D.M.T.	20 AT 358/F.V/F @ psig	20 AT 470/F.V/F @ psig	
DIFFERENTIAL DESIGN PRESSURE	psig	psig	
FLUID	HYDROCARBONS	KEROSENE PUMP/AROUND	
CORROSION ALLOWANCE	1/8 INCH	1/8 (0.045 ON TUBES) INCH	
SHELL THICKNESS (INCH)	3/4 INCH	15/16 INCH	
MATERIAL SPECIFICATION	SA516-70+N	SA516-70+N	
RADIOGRAPHY (SHELL/HEAD)	SPOT / SEAMLESS	SPOT /	
POST WELD HEAT TREATED	NO	YES (ONLY FLOATING HEAD)	
TEMA TYPE / SIZE	AJ21S / I.D. 54" x 2.16" L		

105821

DAEKYUNG MACHINERY & ENGINEERING CO., LTD.

J2

RUBBING OF NAMEPLATE

PROJECT NAME	VOYAGEUR UPGRADER (VU)	ITEM NO.	205E-422
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2 4 8 6
(National Board Serial Number)

CERTIFIED BY DAEKYUNG MACHINERY & ENGINEERING CO., LTD.
(NAME OF MANUFACTURER)

SHELL	TUBES
358 psig AT 650 °F	470 psig AT 650 °F
(MAX. ALLOWABLE WORKING PRESSURE)	
F.V psig AT 400 °F	F.V psig AT 400 °F
(MAX. ALLOWABLE EXTERNAL WORKING PRESSURE)	
(INT./EXT.)	
-20 °F AT 358/F.V psig	-20 °F AT 470/F.V psig
(MIN. DESIGN METAL TEMPERATURE)	
DK2007-235 / 205E-422	
(MANUFACTURER'S SERIAL NUMBER/ITEM NO.)	
2008	
(YEAR BUILT)	

TUBE : CORROSION ALLOWANCE IS 0.045"
(APPLIED TO OUTER SIDE)