

☐ APPROVED-NO CHANGES REQ'D
☐ APPROVED AS NOTED
☐ NOT APPROVED - REVISE AND RESUBMIT

SIGN _____ DATE _____

I HEAD TO SHELL	II HEAD TO SHELL	III	IV
VII	XI	XXVII	XX

1. SUBMITTAL FOR PRIMARY USE IN APPROVAL OF DESIGN CONDITIONS, MAIN COMPONENT DIMENSIONS (EXCLUDING THICKNESS) AND NOZZLE LOCATIONS. THICKNESSES SUBJECT TO CHANGE AFTER COMPREHENSIVE DESIGN
2. WIND LOAD, SEISMIC LOAD AND OPERATING CONTENTS AND CAPACITY HAVE NOT BEEN SUPPLIED, AND THEREFORE HAVE NOT BEEN CONSIDERED IN DESIGN. PLEASE SUPPLY THIS INFORMATION FOR COMPREHENSIVE DESIGN
3. FITTINGS SCHEDULE IS SHOWN PER CUSTOMER DRAWINGS AND HAS NOT BEEN VERIFIED BY COMPREHENSIVE DESIGN.
4. CAN LENGTHS WILL BE ADJUST TO AVOID CONFLICT WITH NOZZLES UPON APPROVED NOZZLE LOCATIONS

MARK	CUST REF	BOM	SERVICE	SIZE	RATING	TYPE	WALL THK	SCH	CUT LENGTH	THK	OD	MAT'L	O.S.	I.S.	DTL	*SYM	A	B	C	D	E	HEAT #	HEAT #
										REINFORCING PAD		PROJECTION		WELD					PIPE	FITTING			

FITTINGS SCHEDULE

1. FLANGE BOLT HOLES TO STRADDLE VESSEL CENTERLINES UNLESS OTHERWISE NOTED.
2. DRILL & TAP 1/4" WEEP HOLE IN REINFORCING PAD AT LOWEST POINT ON VESSEL FOR ALL PADS AND EACH SECTION OF A PAD.
3. OUTSIDE PROJECTION SHOWN IN THE NOZZLE SCHEDULE IS FROM THE VESSEL OD UNLESS OTHERWISE NOTED.
4. INSIDE PROJECTION SHOWN IN THE NOZZLE SCHEDULE IS MINIMUM ONLY.
5. ALL TAIL DIMENSIONS ARE FROM THE REFERENCE LINE.
6. ALL NOZZLES SHALL BE ADEQUATELY PROTECTED AND COVERED FOR SHIPMENT.

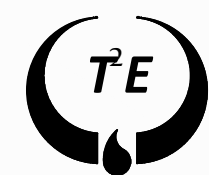
QUALITY CONTROL NOTES:

7. MTR'S REQUIRED.
8. UCS-79(d) & UG79, UG81 COMPLIANCE REQUIRED.
9. ANY RANDOM LENGTH OF PIPE ORDERED MUST HAVE THE COMPLETE IDENTIFICATION TRANSFERRED INCLUDING THE NAME OR BRAND OF MFG. AND VENDORS NAME OR TRADEMARK.
10. ALL NOZZLE INSIDE CORNERS TO BE RADIUS TO THE LESSER OF:
A) 1/4"
B) 3/4"

[illegible]

YEAR BUILT	2013	TAG/MODEL NO.	---
SERIAL NO.	378	NATIONAL BD. NO.	---
DESIGN PRESSURE INT.	250 PSIG	PSIG @ TEMP.	REQUIRED
DESIGN PRESSURE EXT.	N/A	PSIG @ TEMP.	10°F/130°F MIN/MAX
HYDRO PRESSURE INT.	325 PSIG	J.E. LONG SEAMS	N/A MIN/MAX
CORROSION ALLOWANCE	NONE	J.E. ROUND SEAMS	1.0
RADIOGRAPHY	---	STRESS RELIEVE	1.0
SHELL MATL SPEC.	SA-612	N/R PER CODE	---
SHELL THK (MIN/NOM)	0.710 MIN/0.750 NOM	HEAD MATL SPEC.	SA-516-70
FLANGE RATING	---	HEAD THK (MIN/NOM)	0.408 MIN
REPAD MATL SPEC.	---	COUPLING RATING	---
FORGINGS MATL SPEC.	SA-516-70	COUPLING MATL SPEC.	SA-105
PIPE MATL SPEC.	SA-106-B	BW FIT MATL SPEC.	SA-234-WPB
RF GSK MATL SPEC.	304 SS	STRUC MATL SPEC.	SA-516-70
RJ GSK MATL SPEC.	---	FLG STUD SPEC.	SA-193 B7
EMPTY WEIGHT	TBD	FLG NUT SPEC.	SA-193 HN
RF GSK DESC.	---	FULL LIQUID WEIGHT	TBD
RJ GSK DESC.	---		
WELD PROCEDURE	ASME		
INSULATION DESC.	NONE		
INSPECTION BY	OneCIS INSURANCE COMPANY		
CONSTRUCTION CODE	ASME SEC VIII DIV.1 2010 ED. 2011 ADD.		
EXT SURFACE TRMT	PREP: BLAST SSPC-SP6		
	PRIMER: 1 COAT S/W MACROPOXY 646		

TransTech Energy



CUSTOMER

DESCRIPTION	90,000 GALLON BULLET TANK
	10'-10 1/4" ID x 126'-9" S/S HORIZONTAL VESSEL
	GENERAL ARRANGEMENT

SCALE:	NTS	W.O. NO.	--
DRAWN: DC	DATE: 11/19/13	CUSTOMER W.O.	--
CHKD:	DWG. NO.	SHT	REV
DATE:	378	1	-A-