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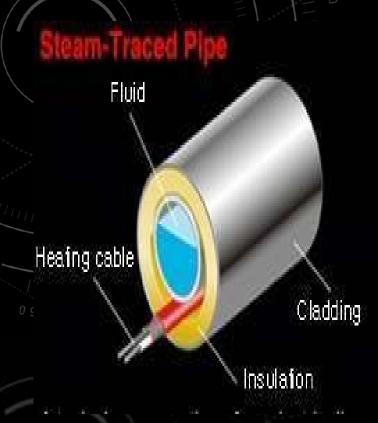


ABOUT KKR BDS

- > ESTABLISHED IN THE YEAR 2010
- > PVT LTD IN THE YEAR 2016
- WORKING AS AN INDEPENDENT ENGINEERING DESIGN SOLUTION AND SERVICE ORIENTED COMPANY
- > OFFERING A VARIETY OF SERVICES FOR DESIGN SUPPORT, CAD DESIGNING & ENGINEERING SECTORS.
- > MECHANICAL DESIGN & DRAFTING SERVICES.
- COMPUTER AIDED ENGINEERING DESIGN ANALYSIS, SIMULATIONS & SERVICES.
- > PRODUCT DESIGN DEVELOPMENT & REVERSE ENGINEERING SERVICES.
- > CIVIL ENGINEERING DESIGN CONCEPTS, PLANNING & DRAFTING DESIGN SERVICES.
- > 2D & 3D MODELING RENDERING & DESIGN SERVICES FOR ARCHITECTS & INTERIOR DESIGNERS.



WHAT IS STEAM TRACING

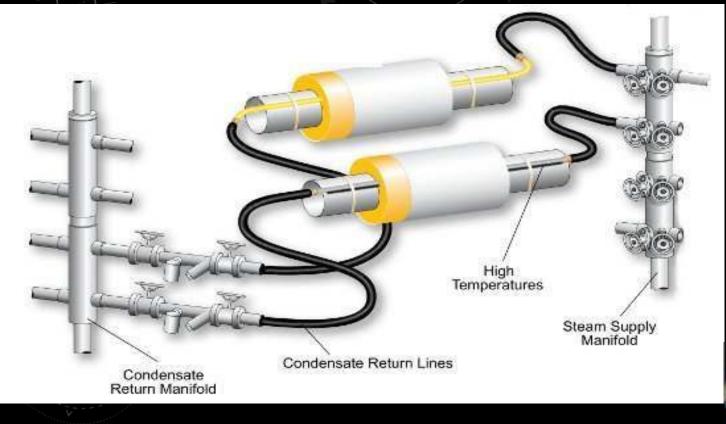


- •Steam tracing is heat tracing performed by circulating steam around process pipes to heat them.
- •A typical piping system of steam tracing consists of :
- •Traced Lines: the process pipeline carrying process fluid that require steam tracing.
- •Steam supply line that connects the steam supply header with the steam tracing manifold or condensate recovery line that connects the condensate header with the condensate recovery manifold.
- •Steam or condensate manifold.
- •Tracer line : the pipe carrying steam along the traced line.
- •Steam traps: for removal of the condensate in used steam, steam traps are installed at regular intervals. It should be located at the lowest point of the tracer.

DETAILED STEPS FOR ENGINEERING OF STEAM PACKAGE

- <u>Basic study and calculations</u>: Study and calculations for no. of tracers, size of tracers, insulation material, HTC line or bare tracer line, Tracer length, lead and tail line length, pressure drop calculation, etc.
- <u>Detailed study</u>: Main process line study, routing of tracer on process lines, routing near valves, routing near instruments, tracing near vessels, decide type and no. of ports to manifolds. Decision regarding bare or HTC tracer requirements.
- <u>3D Modelling</u>: Modelling on software like SP3D / PDMS. Modelling of lead line, tail line and main tracer line & supports.
- <u>Isometrics</u>: Direct extraction or manually preparation of isometrics from model into AutoCAD and do necessary cleanup.
- **Checking**: Checking of all isometric drawings.
- Isometric MTO: Preparing MTO for each isometric drawing.
- Bulk MTO: Preparation of bulk MTO from each isometric MTO in required client's format.
- Manifold location plan: Preparation of final manifold location plan w.r.t. changes in modelling.
- <u>Tracer circuit schedule</u>: Preparation of tracer circuit schedule, which contains information of each port of manifold and location and area of manifold.
- <u>Cable Tray GA Drawings</u>: Preparation of cable tray GA from model and do necessary cleanup.

STEAM TRACING SYSTEM



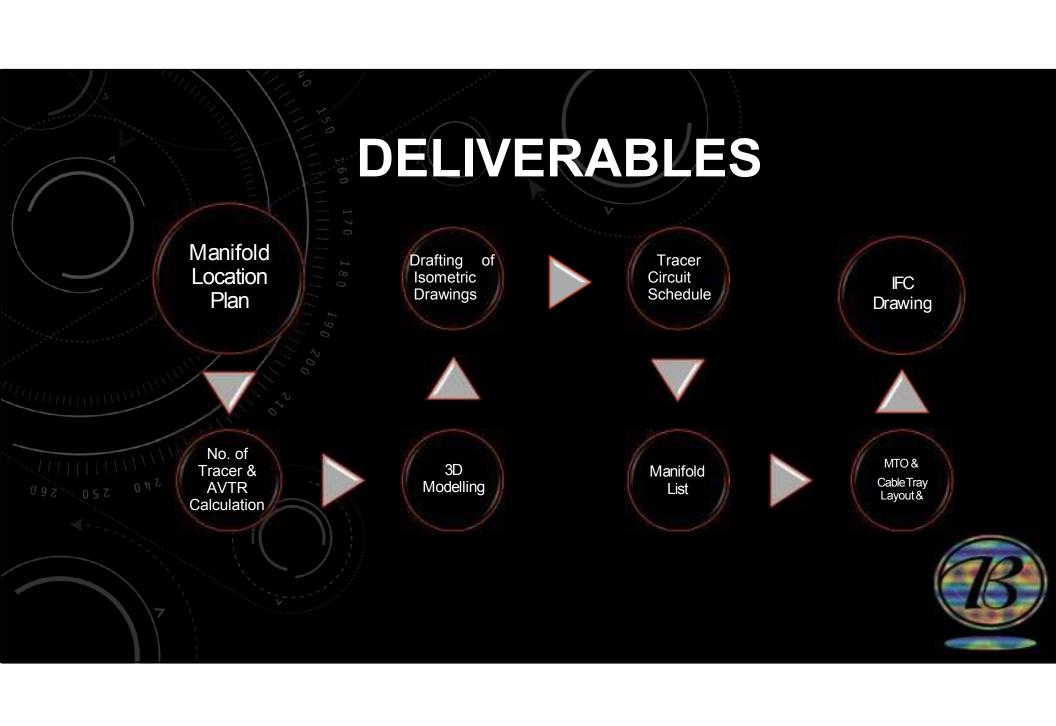




Feasibility Analysis Manifold Location Analysis

Relevant Calculations 3 D Modeling Isometric Extraction





PRESSURE DROP CALCULATION

1				
: Design and Er	gineering of steam tracing package			
:1	- 10			
USAR	Wester:	Volum	Vengen (meter) with 12.7 Go	with 17:05 OO
	9.52mm OD Tube and 19.05mm OD			
bar	0.1813			
kg/cm2	0.1848			
%	4.620652148			
	- W	141		
The I	7 00001	1		40
4		-		49
	the state of the s	_		80
bar	0.0040			4
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· Contraction of the Contraction				
PMK				
:156				1
: PUP				1 4 Gen 20 v 21
	bar bar bar bar bar bar bar	Note Note	1	1

STEAM TRACING CALCULATION

STEAM TRACING CALCULATION - 7412

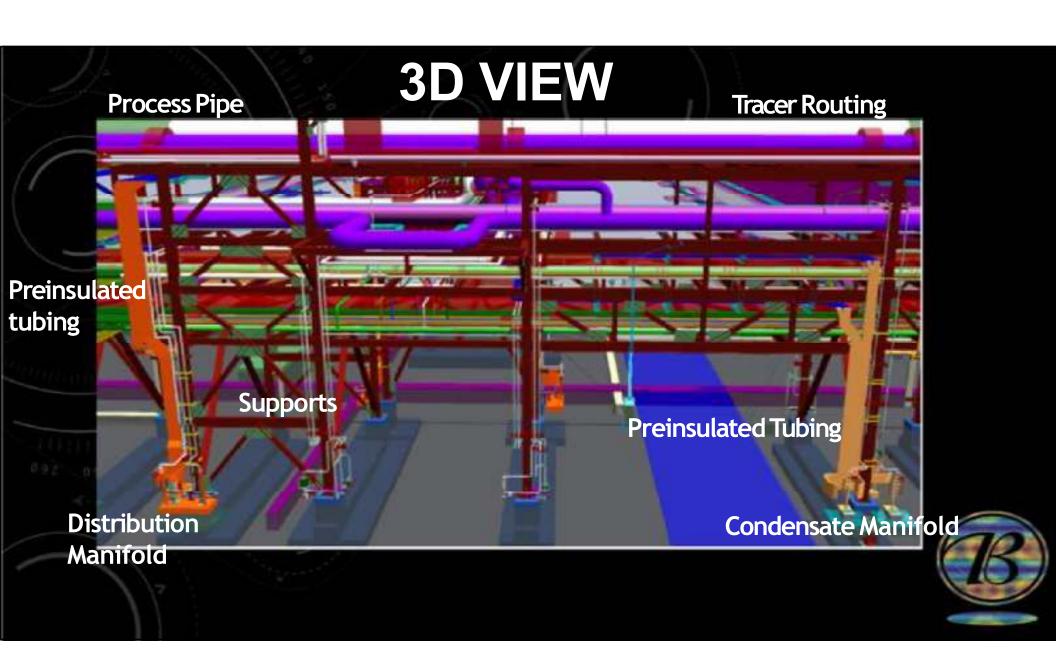
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140	14W04319	THURBOOM	Sounder	26	-	800	19.	22.62	0.061	685	624	101	142	15	- 1	26	1005	3,680	A.000	H	27
3412	THEWD-CORE	THUSFORM	finneiter	90	- 11	600	- 19	10	0.061	660	604	305	142	10	- 1	20	1.05	3,666	4.000	H	27
1412	34W0-2108	TADBROOM	Plate addigate	100	*	100	11	19	0.061	600	684	301	142	10	- 1	30	0.005	1484	4.000	H	31
3830	MARCHIN	NUMBER	Counties	110	- 11	500	- 19	2254	0.061	510	684	205	342	10	- 1	20	1005	2.000	4,000	H	TI.
1412	TWME-2119	74128990094	Smarter	50		1000	- 11	災费	-0.069	610	604	305	142	10	- 1	29	6.885	-3,664	4.090	. #	31
3412	54WE/DH	T4126R04M	Percentage	- 90	- 44	500	- 11	7424	0.068	680	584	105	142	10		26	6865	3,664	4.860	N	
1410	MW6-539	THUSAUSH	Remarks	50	M.	600	tt	44.35	6,061	680	684	305	542	10	- 4	20	0.095	1558	4.000	H	37
144	NFA9-2101	7412BR06M	Tourselign	500	- 44	600	10	2554	0.061	688	584	305	342	10	- 4	20	8.005	3.88	4.000	H	27
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344	MARKET	NIDBROOM	Connector	- 86		600	. 11	13.0	6,061	689	664	505	142	10	- 4	26	0.885	3,886	A3000	2 H	31
34.0	PATABLISH	14120910961	Figuredise	90	M	800	. 10	1825	0.061	010	664	305	342	10	- 4	20	1.865	3,464	4.000	- N	- 27
7410	74WEGDIN	TXSERION	Bannedge	TO	NI .	600	- 11	41.64	0.068	680	684	305	142	10	- 4	20	6385	3,884	4.000	H	- 37
1412	MW0-039	NATABLE AND PROPERTY.	Tourstee	96	**	800	19	54.18	0.061	600	684	305	341	10	- 4	30	8.965	5888	A.000	- H	- 27
102	14740-039	NORBORE	Enterfee	110	- #-	£00	. 11	84.05	0.061	600	684	305	142	10	1	20	8385	2.00	4.000	. H	31
14/0	TWWG-DIR	741201102A	finantiar	- 90	**	800	- 11	1.24	0.061	600	684	301	142	10	- 4	20	8395	3,604	£.000	- PL	31
140	MISSONN	M1003024	finnedige:	.00	- 14	600	10	1.55	0.061	668	664	301	142	10	- 4	26	1495	1,666	4.050	H	37
100	MARKETIN.	AFIBRE	Sunacier	10	- 91	600	- 11.	快略	9.061	618	684	205	142	10	- 1	20	1115	3,664	4.000		27
14/2	THE STATE OF	MISSREW	finactor	100	41	800	17	4.54	0.061	585	684	301	142	10	4	20	1:05	3,000	£.000	H	21
340	74FM(8-85T)	TESTERISM	Finneddyn	10	0	600	- 11	432	0.061	618	504	205	147	10	- 4	30	8395	3,064	A.800	H	31
310	MW0-300	NUBRIM	Source	100	0	600	TI.	4.00	0.061	889	664	201	142	10	1	20	0.005	1,000	\$.000	H	27

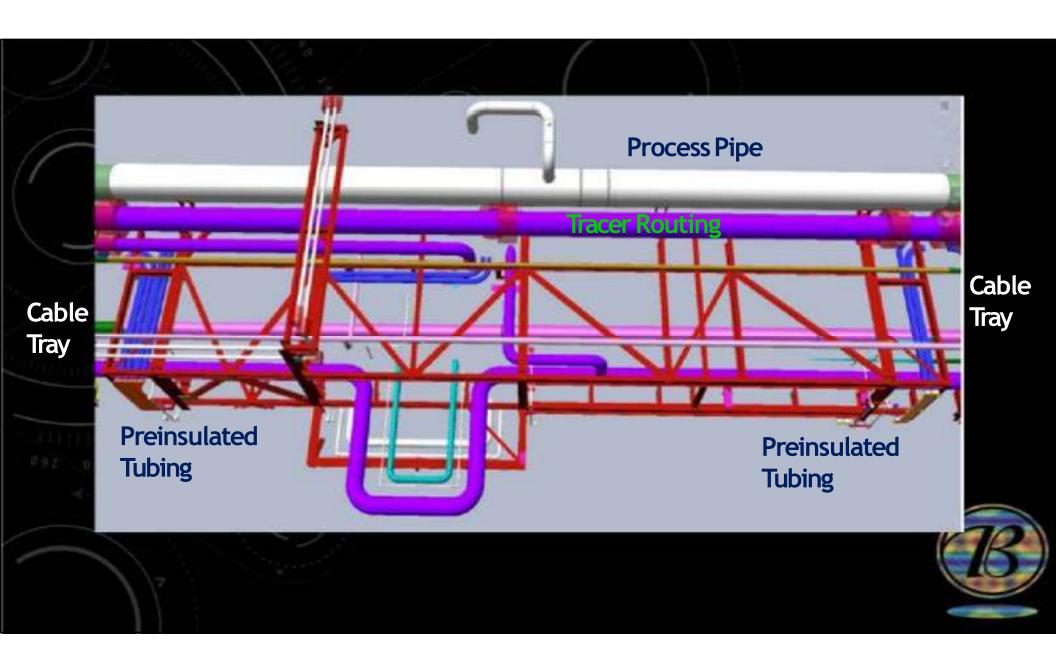


Steam Tracing Sample Ca	lculation f	or Line 1	No. 74FA12-2330						
Input	Volues		Types of Tomes	Cutput	Formula Used from Heat Loss				
line size with Insulation (m)	0.684	do							
Inner diameter of insulation (m)	0.61	di							
Tracer Liner length (m)	- 1	L	Heat Loss through						
Hold up temperature (-C)	70	Tp.	insulation (Watt /	244.39	{2.π.K1.L.(Tp- Ta)} / In (do / di)				
Amblent temperature (°C)	-3	Ta	meter)						
Steam Saturation temperature (°C) at 4 barg	152	Ts	850						
Radius with insulation (m)	0.342		8		UA(Ts-Ta)				
Wind velocity (m/s)	18	1							
Thermal Conductivity of Insulation (W/m K)	0.061	k1	Heat Loss from Tracer	50.57					
Tracer size (mm)	12		tube (Watt/meter)	52.56					
Tracer size (m)	0.012								
Thermal Coductivity of Tube (W/m K) SS316	17	U							
Total heat loss (244.39								
Heat Loss from	Tracer Iv	10		52.56					
Number of tracers (Total heat loss	Heat Los	s from in	racer lube 1.75)	6.20					

VALVE CALCULATION

-	-											
1724 107	Bose		<i>a</i>									
Client							2.7					
Project			: Design	and Eng	ineering of s	team tracing p	package					
Project	No.											
Doc. no).											
Sheet	10.	00-	: 6	0	1	100		No.	0	0		0.0
	Type of Valves	Rating		Face to face	Valve Body Height	Total no. of turns considering 150mm pitch	Tracer Length (For 1 tracer)		Length considering Contingency 20%	Tracer OD	Insulating Spacer sets	Remark
plantanti	Sales Sales (Sales Sales S	000000000000000000000000000000000000000	mm NB	F + mm	H-mm	nos.	mm	mm	mm	mm	nos.	Townson special
1	Butterfly	150 & 300	80	114	190	4	1164	1164	1397	9.525	2	
2	Butterfly	150 & 300	100	127	230	5	1461	1461	1753	12.7	3	
3	Butterfly	150 & 300	150	140	280	6	1840	1840	2208	12.7	4	
4	Butterfly	150 & 300	200	152	345	7	2333	2333	2800	12.7	5	
5	Butterfly	150 & 300	250	165	405	8	2836	2836	3403	12.7	6	
	Butterfly	150 & 300	300	178	485	10	3508	3508	4210	12.7	7	
7	Butterfly	150 & 300	350	190	535	11	3998	3998	4797	12.7	8	
8	Butterfly	150 & 300	400	216	595	12	4775	4775	5730	12.7	10	
9	Butterfly	150 & 300	450	222	635	13	5167	5167	6200	12.7	10	
10	Butterfly	150 & 300	500	229	700	15	5783	5783	6939	12.7	12	
11	Butterfly	150 & 300	600	267	815	17	7381	7381	8858	12.7	15	
12	Butterfly	150 & 300	650	292	865	18	8295	8295	9955	12.7	17	
4.5 2.5 2.5 2.5 2.5 2.5	Butterfly	150 & 300	700	292	920	19	8804	8804	10565	12.7	18	
	Butterfly	150 & 300	750	318	990	21	10017	10017	12020	12.7	20	
15	Butterfly	150 & 300	800	318	1055	22	10654	10654	12784	12.7	21	34511,1003110

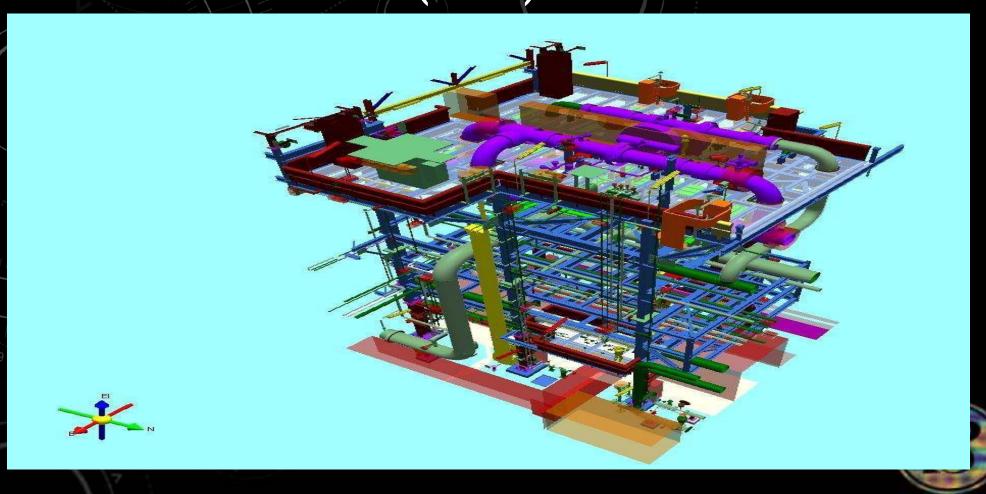




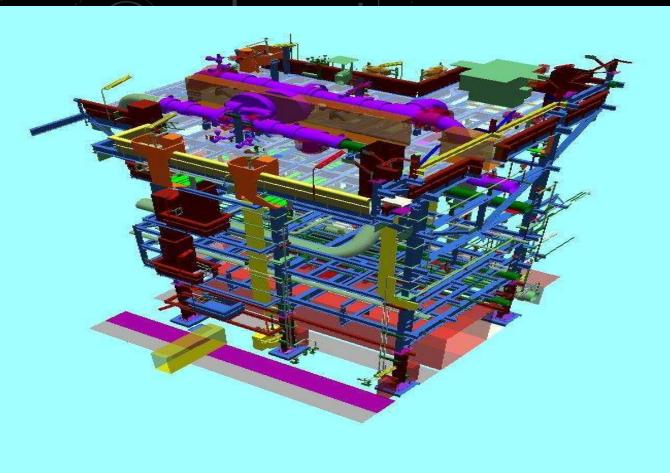
PLANT



ONE UNIT (PART) OF A PLANT

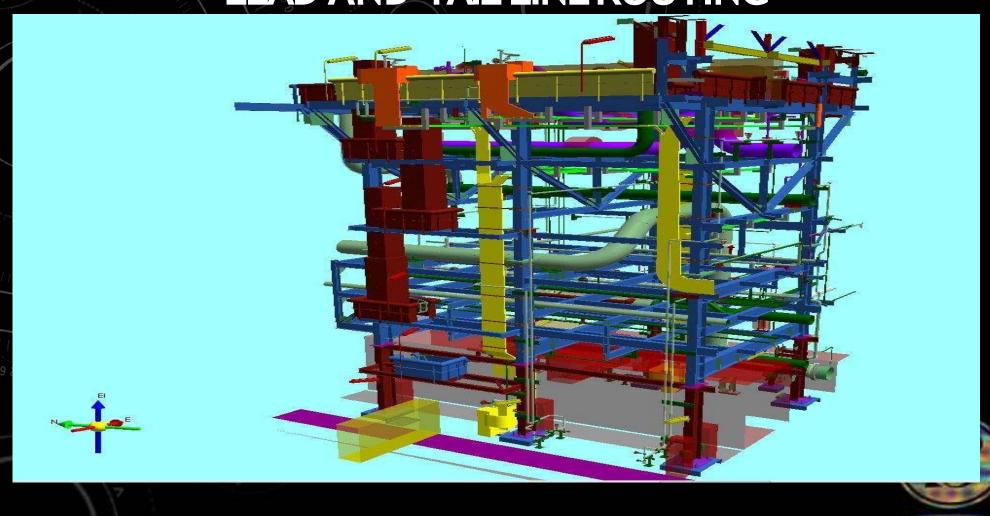


MANIFOLD LOCATION & LEAD LINEROUTING

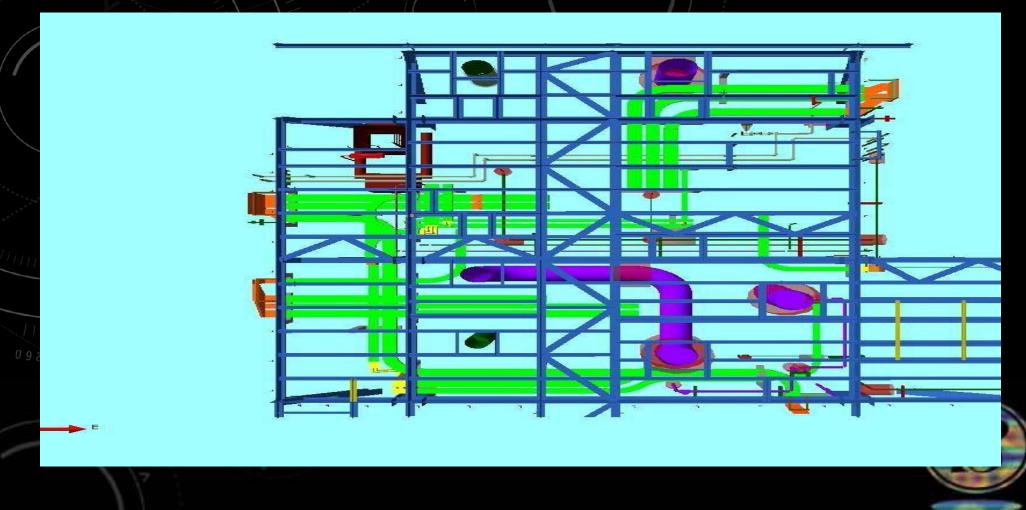




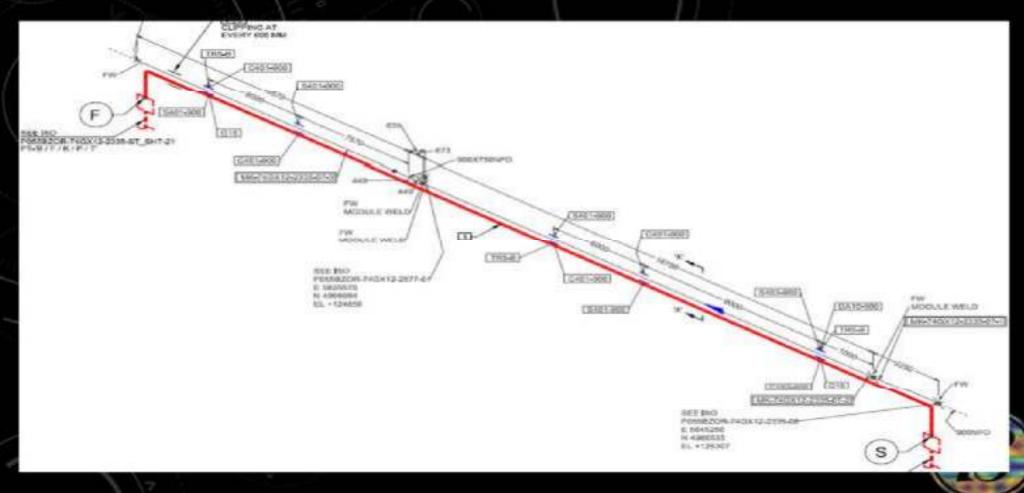
LEAD AND TAIL LINE ROUTING



PLAN VIEW OF CABLETRAY



ISOMETRIC VIEW



MTO (MATERIAL TAKE OFF)

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1 10	6274	UB6091	HAT MANY CLOSE THERE SHOW	PRINCIPL NEWS CLOSE IN	PHIRESON-THREE-COOK-(TICKY), GLOCKIC	PERMITTE	EG URROW FUE DET	FEIGHBRING OPT, JRLING PROPERTY.	NOTEN.					
4 140	G 14	CERNING!	sat- hereng-gibe-seren data	President Service (100-10)	PHINESON NEWS CON-CRIDING REOFFED	MINISTRANCE.	DISCHIEFTER TERREMATION KITE.	DEVONTO (DOMESTONICE) NO	107		- 4			
9 741			600-74FA12-2330-115155-StTr	P055BZ0R-74FA12-2330-01	P055BZ0R-74FA12-2330-ST (SHT. 02 0F 53)	•	TUBE SUPPORTS-600NBx1/2*Tracor	FASTENING CLAMP FOR PRE INSULATED TUBE ON UNISTRUT MEMBER	1/2*	I			10	
10 741	12 74	12BR01M	600-74FA12-2330-115155-StTr	P055BZOR-74FA12-2330-01	P055BZOR-74FA12-2330-ST (SHT. 02 OF 53)	-	TUBE SUPPORTS-600NBx1/2*Tracer	STRUT CHANNEL SUPPORT TYPE-SB13-09-15-B		0.79	1	1	1	Only Universet Longth is considered.
11 741	12 74	12BR01M	600-74FA12-2330-115155-StTr	P055BZOR-74FA12-2330-01	P055BZOR-74FA12-2330-ST (SHT. 02 OF 53)	J-	TUBE SUPPORTS-600NBx1/2*Tracer	STRUT CHANNEL SUPPORT TYPE-SB13-09-15-B - ISMC 150		1.79	1	2.15	1.20	Only Universet Longth is considered.
12 741	12 74	12BR01M	600-74FA12-2330-115155-StTr	P055BZOR-74FA12-2330-01	P055BZOR-74FA12-2330-ST (SHT. 02 OF 53)]-	TUBE SUPPORTS-600NBx1/2*Tracer	STRUT CHANNEL SUPPORT TYPE-SB18-02-15-B		0.23	1	1	1	Only Unirtrut Longth is considered.
13 741	12 74	12BR01M	600-74FA12-2330-115155-StTr	P055BZOR-74FA12-2330-01	P055BZOR-74FA12-2330-ST (SHT. 02 OF 53)	-	TUBE SUPPORTS-600NBx1/2*Tracer	STRUT CHANNEL SUPPORT TYPE-SB18-02-15-B-ISMC 150		4.23	1	5.08	1.20	Only Universet Longth is considered.
741	12 74	12BS02A	600-74FA12-2330-115155-StTr	P055BZOR-74FA12-2330-01	P055BZOR-74FA12-2330-ST (SHT. 03 OF 53)	744855.070.K	PREINSULATED TUBE	PREINSULATED TUBE, 316, 1/2 IN, 0.035 IN	1/2*	36.6		44		
741	12 74	12BS02A	600-74FA12-2330-115155-StTr	P055BZOR-74FA12-2330-01	P055BZOR-74FA12-2330-ST (SHT. 03 OF 53)	763926.050.K	CONNECTOR M-SW TUB CPT	CONNECTORM-SW TUB CPT, A105, 1/2 X 3/4 MSW	1/2°×3/4	1.	4	0	5	
6 741	12 74	12BS02A	600-74FA12-2330-115155-StTr	P055BZOR-74FA12-2330-01	P055BZOR-74FA12-2330-ST (SHT. 03 0F 53)	763991.050.K	EQUNION TUB CPT	EQUNIONTUB CPT,316,1/2×1/2 IN	1/2*81/2	1	4	0	5	
7 741	12 74	12BS02A	600-74FA12-2330-115155-StTr	P055BZOR-74FA12-2330-01	P055BZOR-74FA12-2330-ST (SHT. 03 0F 53)	103624.001.P	END/ENTRY TERMINATION KITS	END/ENTRY TERMINATION KITS-1/2	1/2*	1	*	0	10	
8 741	12 74	12BS02A	600-74FA12-2330-115155-StTr	P055BZOR-74FA12-2330-01	P055BZOR-74FA12-2330-ST (SHT. 03 0F 53)	-	TUBE SUPPORTS-600NBx1/2*Tracor	FASTENING CLAMP FOR PRE INSULATED TUBE ON UNISTRUT MEMBER	1/2*	1	12	0	14	
9 741	12 74	12BS02A	600-74FA12-2330-115155-StTr	P055BZ0R-74FA12-2330-01	P055BZOR-74FA12-2330-ST (SHT. 03 0F 53)	-	TUBE SUPPORTS-600NBx1/2*Tracor	STRUT CHANNEL SUPPORT TYPE-SC7-09-15-B		1.79	1	2	1	Only Unirtrut Longth is considered.
741	12 74	12BS02A	600-74FA12-2330-115155-StTr	P055BZOR-74FA12-2330-01	P055BZOR-74FA12-2330-ST (SHT. 03 0F 53)	-	TUBE SUPPORTS-600NBx1/2*Tracer	STRUT CHANNEL SUPPORT TYPE-SC7-09-15-B-ISMC 150		1.79	1	2.15	1.20	Only Universet Longth is considered.
741	12 74	12BS02A	600-74FA12-2330-115155-StTr	P055BZ0R-74FA12-2330-01	P055BZOR-74FA12-2330-ST (SHT, 03 OF 53)	-	TUBE SUPPORTS-600NBx1/2*Tracer	STRUT CHANNEL SUPPORT TYPE-SB13-09-15-B		0.79	1	1	1	Only Unirtrut Longth is considered.
2 741			600-74FA12-2330-115155-StTr	P055BZ0R-74FA12-2330-01	P055BZOR-74FA12-2330-ST (SHT. 03 OF 53)	-	TUBE SUPPORTS-600NBx1/2*Tracer	STRUT CHANNEL SUPPORT TYPE-SB13-09-15-B-ISMC 150		1.79	1	2.15	1.20	Only Universet Longth is considered.
3 741			600-74FA12-2330-115155-StTr	P055BZ0R-74FA12-2330-01	P055BZOR-74FA12-2330-ST (SHT, 03 OF 53)	·	TUBE SUPPORTS-600NBx1/2*Tracer	STRUT CHANNEL SUPPORT TYPE-SB13-09-15-C	•	1.79	1	2		Only Unirtrut Longth is considered.
4 741			600-74FA12-2330-115155-SeTr	P055BZ0R-74FA12-2330-01	P055BZOR-74FA12-2330-ST (SHT, 03 OF 53)		TUBE SUPPORTS-600NBx1/2*Tracor	STRUT CHANNEL SUPPORT TYPE-SB13-09-15-C-ISMC 150	•	2.58	1	3.10	1.20	Only Universet Longth is considered.
741			100-74FA12-2330-115155-StTr	P055BZOR-74FA12-2330-17	P055BZOR-74FA12-2330-17-(SHT.42 0F 53)	744850,090.K	TUBE	TUBE 316, 3/4 IN, 0.049 IN	3/4*	17.5		21		
3			400 TAPAN 3330 MEME CA.	PARED TAR 24FA42 2224-47	PACCETOR -74F842-2226-42-(CHT 42-OF C2)	707541 (63 B	THE CHERORY WAND SHET	CCDANDINGTOD MAD THE TOLOGO	1 2	1	45	<u></u>	46	
10	110	ESSAM!	ten ferate (210 resets delle	PHENEZOP: NETWO CLOS-IT	PARRIED PRINCIPLE CONTRACTOR	THEFT MEF	THE DIFFERED HORBITANT Trans	CARP STALL	1	100	-6-	-	- 44	
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2	0.00	tikinia	ton 14f40-Jalo 18189-05.	PRINCIPLE STATE CONTROL	PRESENTATION OF BUILDING STREET, ACCOUNTS	751505,475,6	CONSCIONATE DE TRECET	CONSCIONAL CUITABLEST, AND DESCRIPTIVE	Sec. 11	-	-		- 1	
1 10	2000	700 9 770 4	to lifeth the complete	Printing to Select Cities of	PRINCIPAL OF BUILDING TO A CONTROL OF BUILDING	facess ofto a	ED STREET TABLET	ENGINEER FOR OPT, CA. DALLERS	114	1	100			
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Manifolds



Trap Assembly



Preinsulated Tube



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