

	DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT	
	DOCUMENT TITLE: Utility Consumption List	POI: IFA
Contract No.: DPIC/98-12	DOCUMENT NUMBER: DPIC9812-000-VD-1002-ME-LST-0048	Rev. No.: D1

DOCUMENT TITLE:

UTILITY CONSUMPTION LIST

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PURCHASER'S COMMENT/APPROVAL STATUS					Purchaser: NARGAN
1	AP: Approved (Released for Manufacturing)				Requisition No.: DPIC98-12-001-000-ME-MR-4150-0001-D1
<input checked="" type="checkbox"/>	AN: Approved With Minor Comments (Fabrication may Proceed)				
3	NF: Approved With Comments (Fabrication not Proceed)				Item No. (Tag No.): PK-6101
4	RJ: Rejected				
5	NR: Not be Returned				Vendor Doc. No.: DPIC9812-000-VD-1002-ME-LST-0048-D1
Date: 16.04.2022 Signature: A.AB					
					
D1	20.Feb..22	R.GOUDARZI	DR.A.NEJATI	DR.A.NEJATI	
D0	03.Jan..22	R.GOUDARZI	DR.A.NEJATI	DR.A.NEJATI	
REV	DATE ISSUE	PREPARED	CHECKED	APPROVED	



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Rev. No.: D1

Page	Rev-D0	Rev-D1	Rev-D2	Rev-D3	Rev-D4
1	x	x			
2	x	x			
3	x	x			
4					
5					
6					
7					
8					
9					
10					
11					
12					
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22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					

Page	Rev-D0	Rev-D1	Rev-D2	Rev-D3	Rev-D4
36					
37					
38					
39					
40					
41					
42					
43					
44					
45					
46					
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DEHDASHT PETROCHEMICAL INDUSTRY COMPANY

DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT

GENERAL MAJOR COMMENT:
All utilities consumption will be checked after thermal calculation and heat & material balance finalization and approval.

DOCUMENT TITLE: Utility Consumption List

POI: IFA

Contract No.: DPIC/98-12

DOCUMENT NUMBER: DPIC9812-000-VD-1002-ME-LST-004

In discrepancy with the last submitted HTRI file for oil cooler. Please revise/clarify

Rev. No.: D1

ITEM	SERVICE	FLUID (PHASE)	PIPING SIZE	FLOW (kg/h)	PRESSURE (barg)				DURATION				
					MIN.	NORM.	MAX.	DESIGN					
E-PK6101-1A/B	COOLING	JACKETED WATER (LIQUID)	3"	22395.6	37.0	-	45.0	190.0	5.755	-	5.901	10.0	CONTINUOUS (1)
E-PK6101-2	COOLING	JACKETED WATER (LIQUID)	12"	289043	37.0	-	45.0	190.0	5.634	-	5.901	10.0	CONTINUOUS
		INSTRUMENT AIR (GAS)	3/4"	4.95 Nm3/h (2)	40.0	40.0	40.0	80.0	6.5	7	7.5	10.5	CONTINUOUS

Instrument Air distribution branch headers shall be sized as below:
 - 1/2" up to 5 users
 - 3/4" for 6 -10 users
 - 1" for 11 -15 users
 - 1 1/2" for 16 -20 users

2 COOLERS IS IN SERVICE. (IN CASE OF CHANGEVER OF COMPRESSOR OIL COOLERS CAN BE BOTH FOR A SHORT TIME IN OPERATION).
 2) AIR CONSUMPTION FOR CONTROL VALVES= 0.9 Nm3/h PER VALVE (3 CONTROL VALVE x 0.9 Nm3/h= 2.7 Nm3/h)
 AIR CONSUMPTION FOR ON-OFF VALVES= 3": 0.3 Nm3/h PER VALVE, 6": 0.45 Nm3/h PER VALVE
 (3 ON-OFF VALVE 3" x 0.3 Nm3/h + 3 ON-OFF VALVE 6" x 0.45 Nm3/h= 2.25 Nm3/h)

POWER

ITEM	SERVICE	QUANTITY	POWER		VOLT	PHASE	Hz	DURATION	REMARK
			INSTALLED	ABSORBED					
C-PK6101-1A/B	SCREW COMPRESSOR	2 (One in service)	1240.0	1160.0	6000	3	50	CONTINUOUS	-
P-PK6101-1A/2A P-PK6101-1B/2B		2 (One in service)	7.5	5.0	400	3	50	CONTINUOUS	(UP TO 3 PUMPS CAN RUN TOGETHER FOR APPROX. 30-60 SECONDS IN AN UPSET CONDITION. IN NORMAL OPERATION 1 TO 2 OIL PUMPS CAN BE IN OPERATION.)
E-PK6101-4A/B	OIL HEATER OIL SEPARATOR	1	1.5 (*)	-	400	3	50	DISCONTINUOUS	ONLY DURING START-UP
-	ELECTRICAL HEAT TRACING	-	3.0 (*)	-	230	1	50	CONTINUOUS	ALL ELECTRICAL CONNECTIONS ARE TERMINATED AT LOCAL PANEL
-	SPACE HEATER MAIN MOTOR	1	0.3	-		1		DISCONTINUOUS	-
-	SPACE HEATERS OIL PUMP	2	0.05	-	230			DISCONTINUOUS	-

Qty. of control valve (5) to be revised

NOTES:

(*) WILL Please add No. of pump in running (continuous/intermittent and stand by)

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