

NSRP Complex Project Nghi Son, Vietnam	 Nghi Son Refinery and Petrochemical Limited Liability Company	Employer Doc. No.	
		Contractor Doc. No. S-113-1228-0001S	
		Rev. 2	Page 1 of 8
Employer Contract No.:	, Contractor JOB Code: 0-6495-20	Date: 07/MAY/15	

LINE LIST FOR STEAM TURBINE GENERATORS (UNIT 113)

Unit No.: 113

Unit Abbreviation.: STG

Document Class: X

Issue Purpose	For Construction
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Rev	Date	Page	Description	Prep'd	Chk'd	App'd
2	07/MAY/15	ALL	Revised Issued for Construction	H.S.J	JBL/GBL	M.J.K
1	19/DEC/14	2-8	Issued for Construction	H.S.J	JBL/GBL	M.J.K
0	16/JUN/14	2-3	Issued for Construction	H.J.L	SWB / GBL	M.J.K
B	08/JAN/14	ALL	Revised Issued for Review	D.H.K	SWB / GBL	M.J.K
A	28/AUG/13	ALL	Issued for Review	D.H.K	SWB / GBL	M.J.K

Operation Centre JOB Code: 11102D		Operation Centre Doc. No.:	
Responsible Company SK	Prepared by H .S. Jung	Checked by J. B. Lim / G. B. Lee	Approved by M. J. Kim

Max. Size (Inch)	Fluid Code	Unit Number	Line Sequence Number	Piping Class	Insulation Type	Line service Description	Line Origin	Line Termination	Operating Conditions				Alt. Operating Conditions				Design Conditions			Alt. Design Conditions			Tracing		Severe Cyclic Service (Y / -)	Slug Flow (Y / -)	AIV (Y / -)	Test		Remarks	P&ID Number	Rev.	Hold (H)	VOC (Y / -)	Cyclic for Paint	Steam out (Y / -)	Vacuum	
									Fluid Phase (L,V or LV)	Press. (MPa(g))	Temp. (degC)	Dens. (kg/m3)	Fluid Phase (L,V or LV)	Press. (MPa(g))	Temp. (degC)	Dens. (kg/m3)	Press. (MPa(g))	Temp. (degC)	MDMT (degC)	Press. (MPa(g))	Temp. (degC)	MDMT (degC)	Y / -	MMT				Media (P,H,S,V)	Press. (MPa(g))								External Press. (kPa(g))	Max. Temp. (degC)
6	AVC	113	4101	A2AS	NI	AIR VACUUM	113-AVC-4104	113-ST-101-EJ11	V	-0.089	50	0.08					0.500	425	10								H	1.30		VS2158-412-A-137	1						FV	50
6	AVC	113	4201	A2AS	NI	AIR VACUUM	113-AVC-4204	113-ST-201-EJ11	V	-0.089	50	0.08					0.500	425	10								H	1.30		VS2158-412-A-137	1						FV	50
6	AVC	113	4301	A2AS	NI	AIR VACUUM	113-AVC-4304	113-ST-301-EJ11	V	-0.089	50	0.08					0.500	425	10								H	1.30		VS2158-412-A-137	1						FV	50
6	AVC	113	4401	A2AS	NI	AIR VACUUM	113-AVC-4404	113-ST-401-EJ11	V	-0.089	50	0.08					0.500	425	10								H	1.30		VS2158-412-A-137	1						FV	50
8	AVC	113	4501	A2AS	NI	AIR VACUUM	113-AVC-4504	113-ST-501-EJ11	V	-0.093	50	0.56					0.500	425	10								H	1.30		VS2158-412-A-137	1						FV	50
3	AVC	113	4102	A2AS	NI	AIR VACUUM	113-AVC-4101	TO ATM AT SAFE LOCATION	V	-0.089	50	0.08					0.500	425	10								V	-		VS2158-412-A-138	1						FV	50
3	AVC	113	4202	A2AS	NI	AIR VACUUM	113-AVC-4201	TO ATM AT SAFE LOCATION	V	-0.089	50	0.08					0.500	425	10								V	-		VS2158-412-A-138	1						FV	50
3	AVC	113	4302	A2AS	NI	AIR VACUUM	113-AVC-4301	TO ATM AT SAFE LOCATION	V	-0.089	50	0.08					0.500	425	10								V	-		VS2158-412-A-138	1						FV	50
3	AVC	113	4402	A2AS	NI	AIR VACUUM	113-AVC-4401	TO ATM AT SAFE LOCATION	V	-0.089	50	0.08					0.500	425	10								V	-		VS2158-412-A-138	1						FV	50
3	AVC	113	4502	A2AS	NI	AIR VACUUM	113-AVC-4501	TO ATM AT SAFE LOCATION	V	-0.093	50	0.56					0.500	425	10								V	-		VS2158-412-A-138	1						FV	50
6	AVC	113	4103	A2AS	NI	AIR VACUUM	113-AVC-4101	113-ST-101-EJ12A/B	V	-0.089	50	0.08					0.500	425	10								H	1.30		VS2158-412-A-138	1						FV	50
6	AVC	113	4203	A2AS	NI	AIR VACUUM	113-AVC-4201	113-ST-101-EJ12A/B	V	-0.089	50	0.08					0.500	425	10								H	1.30		VS2158-412-A-138	1						FV	50
6	AVC	113	4303	A2AS	NI	AIR VACUUM	113-AVC-4301	113-ST-101-EJ12A/B	V	-0.089	50	0.08					0.500	425	10								H	1.30		VS2158-412-A-138	1						FV	50
6	AVC	113	4403	A2AS	NI	AIR VACUUM	113-AVC-4401	113-ST-101-EJ12A/B	V	-0.089	50	0.08					0.500	425	10								H	1.30		VS2158-412-A-138	1						FV	50
6	AVC	113	4503	A2AS	NI	AIR VACUUM	113-AVC-4501	113-ST-101-EJ12A/B	V	-0.093	50	0.56					0.500	425	10								H	1.30		VS2158-412-A-138	1						FV	50
6	AVC	113	4104	A2AS	NI	AIR VACUUM	113-ST-101-E01	113-ST-101-E01	V	-0.089	50	0.08					0.500	425	10								H	1.30		VS2158-412-A-137	1						FV	50
6	AVC	113	4204	A2AS	NI	AIR VACUUM	113-ST-201-E01	113-ST-201-E01	V	-0.089	50	0.08					0.500	425	10								H	1.30		VS2158-412-A-137	1						FV	50
6	AVC	113	4304	A2AS	NI	AIR VACUUM	113-ST-301-E01	113-ST-301-E01	V	-0.089	50	0.08					0.500	425	10								H	1.30		VS2158-412-A-137	1						FV	50
6	AVC	113	4404	A2AS	NI	AIR VACUUM	113-ST-401-E01	113-ST-401-E01	V	-0.089	50	0.08					0.500	425	10								H	1.30		VS2158-412-A-137	1						FV	50
6	AVC	113	4504	A2AS	NI	AIR VACUUM	113-ST-501-E01	113-ST-501-E01	V	-0.093	50	0.56					0.500	425	10								H	1.30		VS2158-412-A-137	1						FV	50
1	BLD	113	4101	B1AS	HS	BALACE LINE DRAIN	113-ST-101	113-ST-101-E01	L	1.350	281	5.92					2.800	425	10								H	7.27		VS2158-412-A-140	1						FV	281
1	BLD	113	4201	B1AS	HS	BALACE LINE DRAIN	113-ST-201	113-ST-201-E01	L	1.350	281	5.92					2.800	425	10								H	7.27		VS2158-412-A-140	1						FV	281
1	BLD	113	4301	A2AS	HS	BALACE LINE DRAIN	113-ST-301	113-ST-301-E01	L	0.914	261	4.26					1.000	290	10								H	1.63		VS2158-412-A-139	1						FV	261
1	BLD	113	4401	A2AS	HS	BALACE LINE DRAIN	113-ST-401	113-ST-401-E01	L	0.914	261	4.26					1.000	290	10								H	1.63		VS2158-412-A-139	1						FV	261
1	BLD	113	4501	A2AS	HS	BALACE LINE DRAIN	113-ST-501	113-ST-501-E01	L	0.218	142	1.72					1.000	290	10								H	1.63		VS2158-412-A-141	1						FV	142
44	CSWR	113	3001	S0CW	NI	SEA WATER COOLING TOWER SEA WATER RETURN	113-A-003	141-CSWR-3005	L	0.150	43	991.10					1.000	65	10								H	1.50		113-0001S	1							
44	CSWR	113	3002	S0CW	NI	SEA WATER COOLING TOWER SEA WATER RETURN	113-A-004	141-CSWR-3004	L	0.150	43	991.10					1.000	65	10								H	1.50		113-0002S	1							
44	CSWR	113	3003	S0CW	NI	SEA WATER COOLING TOWER SEA WATER RETURN	1																															

Max. Size (Inch)	Fluid Code	Unit Number	Line Sequence Number	Piping Class	Insulation Type	Line service Description	Line Origin	Line Termination	Operating Conditions				Alt. Operating Conditions				Design Conditions				Alt. Design Conditions				Tracing		Severe Cyclic Service (Y / -)	Slug Flow (Y / -)	AIV (Y / -)	Test		Remarks	P&ID Number	Rev.	Hold (H)	VOC (Y / -)	Cyclic for Paint	Steam out (Y / -)	Vacuum	
									Fluid Phase (L,V or LV)	Press. (MPa(g))	Temp. (degC)	Dens. (kg/m3)	Fluid Phase (L,V or LV)	Press. (MPa(g))	Temp. (degC)	Dens. (kg/m3)	Press. (MPa(g))	Temp. (degC)	MDMT (degC)	Press. (MPa(g))	Temp. (degC)	MDMT (degC)	Media (P,H,S,V)	Press. (MPa(g))						External Press. (kPa(g))	Max. Temp. (degC)									
56	CSWS	113	4501	S0CW	NI	SEA WATER COOLING TOWER SEA WATER SUPPLY	113-CSWS-3005	113-ST-501-E01	L	0.220	34	994.50					1.000	65	10							H	1.50		110-1005S	1										
10	CWR	113	0351	A2AW	NI	FRESH COOLING WATER RETURN	113-A-003	110-CWR-0604	L	0.335	47	990.00					1.000	76	10							H	1.50		113-0001S	1										
10	CWR	113	0401	A2AW	NI	FRESH COOLING WATER RETURN	113-A-004	110-CWR-0604	L	0.335	47	990.00					1.000	76	10							H	1.50		113-0002S	1										
12	CWR	113	0951	A2AW	NI	FRESH COOLING WATER RETURN	113-A-001	110-CWR-0604	L	0.335	47	990.00					1.000	76	10							H	1.50		113-0003S	1										
12	CWR	113	2051	A2AW	NI	FRESH COOLING WATER RETURN	113-A-002	110-CWR-0604	L	0.335	47	990.00					1.000	76	10							H	1.50		113-0004S	1										
12	CWR	113	2101	A2AW	NI	FRESH COOLING WATER RETURN	113-A-005	110-CWR-0604	L	0.335	47	990.00					1.000	76	10							H	1.50		113-0005S	1										
8	CWR	113	4101	A2AW	NI	COOLING WATER RETURN	113-ST-101-E21A	113-CWR-0951	L	0.335	38.35	990.00					1.000	76	10							H	1.50		VS2158-412-A-145	2										
8	CWR	113	4201	A2AW	NI	COOLING WATER RETURN	113-ST-201-E21A	113-CWR-2051	L	0.335	38.35	990.00					1.000	76	10							H	1.50		VS2158-412-A-145	2										
6	CWR	113	4301	A2AW	NI	COOLING WATER RETURN	113-ST-301-E21A	113-CWR-0351	L	0.335	36.35	990.00					1.000	76	10							H	1.50		VS2158-412-A-145	2										
6	CWR	113	4401	A2AW	NI	COOLING WATER RETURN	113-ST-401-E21A	113-CWR-0401	L	0.335	36.35	990.00					1.000	76	10							H	1.50		VS2158-412-A-145	2										
8	CWR	113	4501	A2AW	NI	COOLING WATER RETURN	113-ST-501-E21A	113-CWR-2101	L	0.335	37.4	990.00					1.000	76	10							H	1.50		VS2158-412-A-145	2										
8	CWR	113	4102	A2AW	NI	COOLING WATER RETURN	113-ST-101-E21B	113-CWR-4101	L	0.335	38.35	990.00					1.000	76	10							H	1.50		VS2158-412-A-145	2										
8	CWR	113	4202	A2AW	NI	COOLING WATER RETURN	113-ST-201-E21B	113-CWR-4201	L	0.335	38.35	990.00					1.000	76	10							H	1.50		VS2158-412-A-145	2										
6	CWR	113	4302	A2AW	NI	COOLING WATER RETURN	113-ST-301-E21B	113-CWR-4301	L	0.335	36.35	990.00					1.000	76	10							H	1.50		VS2158-412-A-145	2										
6	CWR	113	4402	A2AW	NI	COOLING WATER RETURN	113-ST-401-E21B	113-CWR-4401	L	0.335	36.35	990.00					1.000	76	10							H	1.50		VS2158-412-A-145	2										
8	CWR	113	4502	A2AW	NI	COOLING WATER RETURN	113-ST-501-E21B	113-CWR-4501	L	0.335	37.4	990.00					1.000	76	10							H	1.50		VS2158-412-A-145	2										
6	CWR	113	4103	A2AW	NI	COOLING WATER RETURN	113-STG-101	113-CWR-0951	L	0.335	47	990.00					1.000	76	10							H	1.50		VS2158-412-A-143	1										
6	CWR	113	4203	A2AW	NI	COOLING WATER RETURN	113-STG-201	113-CWR-2051	L	0.335	47	990.00					1.000	76	10							H	1.50		VS2158-412-A-143	1										
6	CWR	113	4303	A2AW	NI	COOLING WATER RETURN	113-STG-301	113-CWR-0351	L	0.335	47	990.00					1.000	76	10							H	1.50		VS2158-412-A-142	1										
6	CWR	113	4403	A2AW	NI	COOLING WATER RETURN	113-STG-401	113-CWR-0401	L	0.335	47	990.00					1.000	76	10							H	1.50		VS2158-412-A-142	1										
6	CWR	113	4503	A2AW	NI	COOLING WATER RETURN	113-STG-501	113-CWR-2101	L	0.335	47	990.00					1.000	76	10							H	1.50		VS2158-412-A-144	1										
1	CWR	113	4105	A2AW	NI	COOLING WATER RETURN	113-CWR-4103	113-PSV-7167B	L	0.335	47	990.00					1.000	76	10							H	1.50		VS2158-412-A-143	1										
1	CWR	113	4205	A2AW	NI	COOLING WATER RETURN	113-CWR-4203	113-PSV-7267B	L	0.335	47	990.00					1.000	76	10							H	1.50		VS2158-412-A-143	1										
1	CWR	113	4305	A2AW	NI	COOLING WATER RETURN	113-CWR-4303	113-PSV-7367B	L	0.335	47	990.00					1.000	76	10							H	1.50		VS2158-412-A-142	1										
1	CWR	113	4405	A2AW	NI	COOLING WATER RETURN	113-CWR-4403	113-PSV-7467B	L	0.335	47	990.00					1.000	76	10							H	1.50		VS2158-412-A-142	1										
1	CWR	113	4505	A2AW	NI	COOLING WATER RETURN	113-CWR-4503	113-PSV-7567B	L	0.335	47	990.00					1.000	76	10							H	1.50		VS2158-412-A-144	1										
1	CWR	113	4106	A2AW	NI	COOLING WATER RETURN	113-PSV-7167B	TO GRADE AT SAFE LOCATION	L	0.335	47	990.0					1.000	76	10							V	-		VS2158-412-A-143	1										
1	CWR	113	4206	A2AW	NI	COOLING WATER RETURN	113-PSV-7267B	TO GRADE AT SAFE LOCATION	L	0.335	47	990.0					1.000	76	10							V	-		VS2158-412-A-143	1										

Max. Size (Inch)	Fluid Code	Unit Number	Line Sequence Number	Piping Class	Insulation Type	Line service Description	Line Origin	Line Termination	Operating Conditions				Alt. Operating Conditions				Design Conditions				Alt. Design Conditions				Tracing		Severe Cyclic Service (Y / -)	Slug Flow (Y / -)	AIV (Y / -)	Test		Remarks	P&ID Number	Rev.	Hold (H)	VOC (Y / -)	Cyclic for Paint	Steam out (Y / -)	Vacuum	
									Fluid Phase (L,V or LV)	Press. (MPa(g))	Temp. (degC)	Dens. (kg/m3)	Fluid Phase (L,V or LV)	Press. (MPa(g))	Temp. (degC)	Dens. (kg/m3)	Press. (MPa(g))	Temp. (degC)	MDMT (degC)	Press. (MPa(g))	Temp. (degC)	MDMT (degC)	Media (P,H,S,V)	Press. (MPa(g))						External Press. (kPa(g))	Max. Temp. (degC)									
6	CWS	113	4402	A2AW	NI	COOLING WATER SUPPLY	113-CWS-4401	110-ST-401-E21B	L	0.535	34	995.00					1.000	76	10							H	1.50		VS2158-412-A-145	1										
8	CWS	113	4502	A2AW	NI	COOLING WATER SUPPLY	113-CWS-4501	110-ST-501-E21B	L	0.535	34	995.00					1.000	76	10							H	1.50		VS2158-412-A-145	1										
6	CWS	113	4103	A2AW	NI	COOLING WATER SUPPLY	113-CWS-3010	113-STG-101	L	0.535	34	995.00					1.000	76	10							H	1.50		VS2158-412-A-143	1										
6	CWS	113	4203	A2AW	NI	COOLING WATER SUPPLY	113-CWS-3015	113-STG-201	L	0.535	34	995.00					1.000	76	10							H	1.50		VS2158-412-A-143	1										
6	CWS	113	4303	A2AW	NI	COOLING WATER SUPPLY	113-CWS-3001	113-STG-301	L	0.535	34	995.00					1.000	76	10							H	1.50		VS2158-412-A-142	1										
6	CWS	113	4403	A2AW	NI	COOLING WATER SUPPLY	113-CWS-3005	113-STG-401	L	0.535	34	995.00					1.000	76	10							H	1.50		VS2158-412-A-142	1										
6	CWS	113	4503	A2AW	NI	COOLING WATER SUPPLY	113-CWS-3020	113-STG-501	L	0.535	34	995.00					1.000	76	10							H	1.50		VS2158-412-A-144	1										
3	DMW	113	3001	A0JW	NI	DEMIN WATER	110-DMW-3002	113-A-003	L	0.600	30	996.00					0.800	60	10							H	1.20		110-3004S	0										
3	DMW	113	3002	A0JW	NI	DEMIN WATER	110-DMW-3002	113-A-004	L	0.600	30	996.00					0.800	60	10							H	1.20		110-3004S	0										
3	DMW	113	3003	A0JW	NI	DEMIN WATER	110-DMW-3002	113-A-001	L	0.600	30	996.00					0.800	60	10							H	1.20		110-3004S	0										
3	DMW	113	3004	A0JW	NI	DEMIN WATER	110-DMW-3002	113-A-002	L	0.600	30	996.00					0.800	60	10							H	1.20		110-3004S	0										
3	DMW	113	3005	A0JW	NI	DEMIN WATER	110-DMW-3002	113-A-005	L	0.600	30	996.00					0.800	60	10							H	1.20		110-3004S	0										
1	GLS	113	4101	A2AS	PP	GLAND LEAK STEAM	113-ST-101	113-GLS-4106	V	-0.089	271	0.04					0.500	425	10							H	1.30		VS2158-412-A-140	1						FV	271			
1	GLS	113	4201	A2AS	PP	GLAND LEAK STEAM	113-ST-201	113-GLS-4206	V	-0.089	271	0.04					0.500	425	10							H	1.30		VS2158-412-A-140	1						FV	271			
1	GLS	113	4301	A2AS	PP	GLAND LEAK STEAM	113-ST-301	113-GLS-4306	V	-0.089	290	0.05					0.500	425	10							H	1.30		VS2158-412-A-139	1						FV	290			
1	GLS	113	4401	A2AS	PP	GLAND LEAK STEAM	113-ST-401	113-GLS-4406	V	-0.089	290	0.05					0.500	425	10							H	1.30		VS2158-412-A-139	1						FV	290			
1	GLS	113	4501	A2AS	PP	GLAND LEAK STEAM	113-ST-501	113-GLS-4506	V	-0.093	219	0.04					0.500	425	10							H	1.30		VS2158-412-A-141	1						FV	219			
3	GLS	113	4102	A2AS	PP	GLAND LEAK STEAM	113-ST-101	113-GLS-4106	V	-0.089	271	0.04					0.500	425	10							H	1.30		VS2158-412-A-140	1						FV	271			
3	GLS	113	4202	A2AS	PP	GLAND LEAK STEAM	113-ST-201	113-GLS-4206	V	-0.089	271	0.04					0.500	425	10							H	1.30		VS2158-412-A-140	1						FV	271			
3	GLS	113	4302	A2AS	PP	GLAND LEAK STEAM	113-ST-301	113-GLS-4306	V	-0.089	290	0.05					0.500	425	10							H	1.30		VS2158-412-A-139	1						FV	290			
3	GLS	113	4402	A2AS	PP	GLAND LEAK STEAM	113-ST-401	113-GLS-4406	V	-0.089	290	0.05					0.500	425	10							H	1.30		VS2158-412-A-139	1						FV	290			
3	GLS	113	4502	A2AS	PP	GLAND LEAK STEAM	113-ST-501	113-GLS-4506	V	-0.093	219	0.04					0.500	425	10							H	1.30		VS2158-412-A-141	1						FV	219			
1	GLS	113	4103	A2AS	NI	GLAND LEAK STEAM	113-ST-101	113-GLS-4102	V	-0.089	50	988					0.500	425	10							H	1.30		VS2158-412-A-140	2	H					FV	HOLD 50			
1	GLS	113	4203	A2AS	NI	GLAND LEAK STEAM	113-ST-201	113-GLS-4202	V	-0.089	50	988					0.500	425	10							H	1.30		VS2158-412-A-140	2	H					FV	HOLD 50			
1	GLS	113	4303	A2AS	NI	GLAND LEAK STEAM	113-ST-301	113-GLS-4302	V	-0.089	50	988					0.500	425	10							H	1.30		VS2158-412-A-139	2	H					FV	HOLD 50			
1	GLS	113	4403	A2AS	NI	GLAND LEAK STEAM	113-ST-401	113-GLS-4402	V	-0.089	50	988					0.500	425	10							H	1.30		VS2158-412-A-139	2	H					FV	HOLD 50			
1	GLS	113	4503	A2AS	HS	GLAND LEAK STEAM	113-ST-501	113-GLS-4402		-0.093	50	988					0.500	425	10							H	1.30		VS2158-412-A-141	2	H					FV	HOLD 50			
3	GLS	113	4104	A2AS	PG	GLAND LEAK STEAM	113-ST-101	113-GLS-4106	V	-0.089	136	0.07					0.500	425	10							H	1.30		VS2158-412-A-140	1										

Max. Size (Inch)	Fluid Code	Unit Number	Line Sequence Number	Piping Class	Insulation Type	Line service Description	Line Origin	Line Termination	Operating Conditions				Alt. Operating Conditions				Design Conditions			Alt. Design Conditions			Tracing		Severe Cyclic Service (Y / -)	Slug Flow (Y / -)	AIV (Y / -)	Test		Remarks	P&ID Number	Rev.	Hold (H)	VOC (Y / -)	Cyclic for Paint	Steam out (Y / -)	Vacuum	
									Fluid Phase (L,V or LV)	Press. (MPa(g))	Temp. (degC)	Dens. (kg/m3)	Fluid Phase (L,V or LV)	Press. (MPa(g))	Temp. (degC)	Dens.	Press. (MPa(g))	Temp. (degC)	MDMT (degC)	Press. (MPa(g))	Temp. (degC)	MDMT (degC)	Y / -	MMT				Media (P,H,S,V)	Press. (MPa(g))								External Press. (kPa(g))	Max. Temp. (degC)
1	GSS	113	4106	B2DH	HS	GLAND SEAL STEAM	113-GSS-4104	113-GSS-4102	V	0.030	436	0.40					0.500	450	10							H	1.07		VS2158-412-A-140	1						FV	436	
1	GSS	113	4206	B2DH	HS	GLAND SEAL STEAM	113-GSS-4204	113-GSS-4202	V	0.030	436	0.40					0.500	450	10							H	1.07		VS2158-412-A-140	1						FV	436	
1	GSS	113	4306	B2DH	HS	GLAND SEAL STEAM	113-GSS-4304	113-GSS-4302	V	0.030	436	0.40					0.500	450	10							H	1.07		VS2158-412-A-139	1						FV	436	
1	GSS	113	4406	B2DH	HS	GLAND SEAL STEAM	113-GSS-4404	113-GSS-4402	V	0.030	436	0.40					0.500	450	10							H	1.07		VS2158-412-A-139	1						FV	436	
1	GSS	113	4506	A2AS	HS	GLAND SEAL STEAM	113-GSS-4504	113-GSS-4502	V	0.030	327	0.48					0.500	425	10							H	1.30		VS2158-412-A-141	1						FV	327	
3	HBFW	113	3001	M2AS	HS	HIGH PRESSURE BOILER FEED WATER	113-HBFW-3006	113-A-001	L	7.600	120	946.60					12.000	155	10							H	18.01		110-3004S	2								
3	HBFW	113	3002	M2AS	HS	HIGH PRESSURE BOILER FEED WATER	113-HBFW-3006	113-A-002	L	7.600	120	946.60					12.000	155	10							H	18.01		110-3004S	2								
2	HBFW	113	3003	M2AS	HS	HIGH PRESSURE BOILER FEED WATER	113-HBFW-3006	113-A-003	L	7.600	120	946.60					12.000	155	10							H	18.01		110-3004S	2								
2	HBFW	113	3004	M2AS	HS	HIGH PRESSURE BOILER FEED WATER	113-HBFW-3006	113-A-004	L	7.600	120	946.60					12.000	155	10							H	18.01		110-3004S	2								
24	HHPS	113	3009	P0MS	HS	HIGH HIGH PRESSURE STEAM	110-HHPS-3023	113-A-003	V	12.690	520	38.78					14.000	545	10							H	24.94		110-3002S	2						FV	520	
24	HHPS	113	3011	P0MS	HS	HIGH HIGH PRESSURE STEAM	110-HHPS-3023	113-A-004	V	12.690	520	38.78					14.000	545	10							H	24.94		110-3002S	2						FV	520	
18	HHPS	113	3013	P0MS	HS	HIGH HIGH PRESSURE STEAM	110-HHPS-3023	113-A-001	V	12.690	520	38.78					14.000	545	10							H	24.94		110-3002S	2						FV	520	
18	HHPS	113	3015	P0MS	HS	HIGH HIGH PRESSURE STEAM	110-HHPS-3023	113-A-002	V	12.690	520	38.78					14.000	545	10							H	24.94		110-3002S	2						FV	520	
1	HHPS	113	4101	P0MS	HS	HIGH HIGH PRESSURE STEAM	113-ST-101	113-ST-101-E01	V	12.690	520	38.60					14.000	545	10							H	24.94		VS2158-412-A-140	1						FV	520	
1	HHPS	113	4102	M2DH (HOLD)	HS	HIGH HIGH PRESSURE STEAM	113-ST-101	113-ST-101-E01	V	7.581	455	24.80					8.400	480	10							H	19.56		VS2158-412-A-140	2		H				FV	455	
3	HHPS	113	4103	P0MS	HS	HIGH HIGH PRESSURE STEAM	113-HHPS-3013	113-V-4104	V	12.690	520	38.60					14.000	545	10							H	24.94		VS2158-412-A-140	1						FV	520	
1	HHPS	113	4201	P0MS	HS	HIGH HIGH PRESSURE STEAM	113-ST-201	113-ST-201-E01	V	12.690	520	38.60					14.000	545	10							H	24.94		VS2158-412-A-140	1						FV	520	
1	HHPS	113	4202	M2DH (HOLD)	HS	HIGH HIGH PRESSURE STEAM	113-ST-201	113-ST-201-E01	V	7.581	455	24.80					8.400	480	10							H	19.56		VS2158-412-A-140	2		H				FV	455	
3	HHPS	113	4203	P0MS	HS	HIGH HIGH PRESSURE STEAM	113-HHPS-3015	113-V-4204	V	12.690	520	38.60					14.000	545	10							H	24.94		VS2158-412-A-140	1						FV	520	
1	HHPS	113	4301	P0MS	HS	HIGH HIGH PRESSURE STEAM	113-ST-301	113-ST-301-E01	V	12.690	520	38.60					14.000	545	10							H	24.94		VS2158-412-A-139	2						FV	520	
1	HHPS	113	4302	P0MS	HS	HIGH HIGH PRESSURE STEAM	113-ST-301	113-ST-301-E01	V	10.035	493	31.40					14.000	545	10							H	24.94		VS2158-412-A-139	2						FV	493	
3	HHPS	113	4303	P0MS	HS	HIGH HIGH PRESSURE STEAM	113-HHPS-3009	113-V-4304	V	12.690	520	38.60					14.000	545	10							H	24.94		VS2158-412-A-139	1						FV	520	
1	HHPS	113	4401	P0MS	HS	HIGH HIGH PRESSURE STEAM	113-ST-401	113-ST-401-E01	V	12.690	520	38.60					14.000	545	10							H	24.94		VS2158-412-A-139	2						FV	520	
1	HHPS	113	4402	P0MS	HS	HIGH HIGH PRESSURE STEAM	113-ST-401	113-ST-401-E01	V	10.035	493	31.40					14.000	545	10							H	24.94		VS2158-412-A-139	2						FV	493	
3	HHPS	113	4403	P0MS	HS	HIGH HIGH PRESSURE STEAM	113-HHPS-3011	113-V-4404	V	12.690	520	38.60					14.000	545	10							H	24.94		VS2158-412-A-139	1						FV	520	
0.75	HPCW	113	4301	A2AS	PG	HIGH PRESSURE CONDENSATE WATER	113-HPS-4305	110-HPCW-3001	L	0.340	175	906.40					0.810	300	10							H	1.34		VS2158-412-A-071	2						FV	175	
0.75	HPCW	113	4401	A2AS	PG	HIGH PRESSURE CONDENSATE WATER	113-HPS-4405	110-HPCW-3001	L	0.340	175	906.40					0.810	300	10							H	1.34		VS2158-412-A-071	2						FV	175	
20	HPS	113	0351	D1AS	HS	HIGH PRESSURE STEAM	113-A-003	11																														

Max. Size (Inch)	Fluid Code	Unit Number	Line Sequence Number	Piping Class	Insulation Type	Line service Description	Line Origin	Line Termination	Operating Conditions				Alt. Operating Conditions				Design Conditions			Alt. Design Conditions			Tracing		Severe Cyclic Service (Y / -)	Slug Flow (Y / -)	AIV (Y / -)	Test		Remarks	P&ID Number	Rev.	Hold (H)	VOC (Y / -)	Cyclic for Paint	Steam out (Y / -)	Vacuum	
									Fluid Phase (L,V or LV)	Press. (MPa(g))	Temp. (degC)	Dens. (kg/m3)	Fluid Phase (L,V or LV)	Press. (MPa(g))	Temp. (degC)	Dens. (kg/m3)	Press. (MPa(g))	Temp. (degC)	MDMT (degC)	Press. (MPa(g))	Temp. (degC)	MDMT (degC)	Y / -	MMT				Media (P,H,S,V)	Press. (MPa(g))								External Press. (kPa(g))	Max. Temp. (degC)
0.75	MPCW	113	4501	A2AS	PG	MIDDLEPRESSURE CONDENSATE WATER	113-MPS-4505	110-HPCW-3001	LV	0.340	175	920.00					0.810	300	10							H	1.34	Vapor Density 2.4kg/m³	VS2158-412-A-073	2						FV	175	
12	MPS	113	0951	B1AS	HS	MIDDLE PRESSURE STEAM	113-A-001	110-MPS-3002	V	2.550	325	10.20					2.800	375	10							H	5.15		113-0003S	0						FV	325	
12	MPS	113	2051	B1AS	HS	MIDDLE PRESSURE STEAM	113-A-002	110-MPS-3002	V	2.550	325	10.20					2.800	375	10							H	5.15		113-0004S	0						FV	325	
8	MPS	113	3001	B1AS	HS	MIDDLE PRESSURE STEAM	110-MPS-3002	113-A-003	V	2.550	325	10.20					2.800	375	10							H	5.15		110-3003S	1						FV	325	
8	MPS	113	3002	B1AS	HS	MIDDLE PRESSURE STEAM	110-MPS-3002	113-A-004	V	2.550	325	10.20					2.800	375	10							H	5.15		110-3003S	1						FV	325	
8	MPS	113	3003	B1AS	HS	MIDDLE PRESSURE STEAM	110-MPS-3002	113-A-001	V	2.550	325	10.20					2.800	375	10							H	5.15		110-3003S	1						FV	325	
8	MPS	113	3004	B1AS	HS	MIDDLE PRESSURE STEAM	110-MPS-3002	113-A-002	V	2.550	325	10.20					2.800	375	10							H	5.15		110-3003S	1						FV	325	
6	MPS	113	3005	B1AS	HS	MIDDLE PRESSURE STEAM	110-MPS-3002	113-A-005	V	2.550	325	10.20					2.800	375	10							H	5.15		110-3003S	1						FV	325	
1	MPS	113	4101	B1AS	HS	MIDDLE PRESSURE STEAM	113-MPS-4103	113-ST-101-E01	V	2.550	408	8.73					2.800	425	10							H	7.27		VS2158-412-A-140	1						FV	408	
1.5	MPS	113	4102	B1AS	HS	MIDDLE PRESSURE STEAM	113-MPS-3003	113-ST-101-EJ11	V	2.550	325	10.20					2.800	375	10							H	5.15		VS2158-412-A-140	1						FV	325	
10	MPS	113	4103	B1AS	HS	MIDDLE PRESSURE STEAM	113-ST-101	113-ST-101-DS02	V	2.550	408	8.73					2.800	425	10							H	7.27		VS2158-412-A-140	1						FV	408	
1	MPS	113	4201	B1AS	HS	MIDDLE PRESSURE STEAM	113-MPS-4203	113-ST-201-E01	V	2.550	408	8.73					2.800	425	10							H	7.27		VS2158-412-A-140	1						FV	408	
1.5	MPS	113	4202	B1AS	HS	MIDDLE PRESSURE STEAM	113-MPS-3004	113-ST-201-EJ11	V	2.550	325	10.20					2.800	375	10							H	5.15		VS2158-412-A-140	1						FV	325	
10	MPS	113	4203	B1AS	HS	MIDDLE PRESSURE STEAM	113-ST-201	113-ST-201-DS02	V	2.550	408	8.73					2.800	425	10							H	7.27		VS2158-412-A-140	1						FV	408	
1.5	MPS	113	4301	B1AS	HS	MIDDLE PRESSURE STEAM	113-MPS-3001	113-ST-301-EJ11	V	2.550	325	10.20					2.800	375	10							H	5.15		VS2158-412-A-139	1						FV	325	
1.5	MPS	113	4401	B1AS	HS	MIDDLE PRESSURE STEAM	113-MPS-3002	113-ST-401-EJ11	V	2.550	325	10.20					2.800	375	10							H	5.15		VS2158-412-A-139	1						FV	325	
1.5	MPS	113	4501	B1AS	HS	MIDDLE PRESSURE STEAM	113-MPS-3005	113-ST-501-EJ11	V	2.550	325	10.20					2.800	375	10							H	5.15		VS2158-412-A-141	1						FV	325	
1.5	MPS	113	4104	B1AS	HS	MIDDLE PRESSURE STEAM	113-MPS-4102	TP7130B	V	2.550	325	10.20					2.800	375	10							H	5.15		VS2158-412-A-138	1						FV	325	
1.5	MPS	113	4204	B1AS	HS	MIDDLE PRESSURE STEAM	113-MPS-4202	TP7230B	V	2.550	325	10.20					2.800	375	10							H	5.15		VS2158-412-A-138	1						FV	325	
1.5	MPS	113	4304	B1AS	HS	MIDDLE PRESSURE STEAM	113-MPS-4301	TP7330B	V	2.550	325	10.20					2.800	375	10							H	5.15		VS2158-412-A-138	1						FV	325	
1.5	MPS	113	4404	B1AS	HS	MIDDLE PRESSURE STEAM	113-MPS-4401	TP7430B	V	2.550	325	10.20					2.800	375	10							H	5.15		VS2158-412-A-138	1						FV	325	
1.5	MPS	113	4504	B1AS	HS	MIDDLE PRESSURE STEAM	113-MPS-4501	TP7530B	V	2.550	325	10.20					2.800	375	10							H	5.15		VS2158-412-A-138	1						FV	325	
0.75	MPS	113	4105	B1AS	HS	MIDDLE PRESSURE STEAM	113-MPS-3003	113-MPCW-4101	V	2.550	325	10.20					2.800	375	10							H	5.15		VS2158-412-A-140	2						FV	325	
0.75	MPS	113	4205	B1AS	HS	MIDDLE PRESSURE STEAM	113-MPS-3004	113-MPCW-4201	V	2.550	325	10.20					2.800	375	10							H	5.15		VS2158-412-A-140	2						FV	325	
0.75	MPS	113	4305	B1AS	HS	MIDDLE PRESSURE STEAM	113-MPS-3001	113-MPCW-4301	V	2.550	325	10.20					2.800	375	10							H	5.15		VS2158-412-A-139	2						FV	325	
0.75	MPS	113	4405	B1AS	HS	MIDDLE PRESSURE STEAM	113-MPS-3002	113-MPCW-4301	V	2.550	325	10.20					2.800	375	10							H	5.15		VS2158-412-A-139	2						FV	325	
0.75	MPS	113	4505	B1AS	HS	MIDDLE PRESSURE STEAM	113-MPS-3005	113-MPCW-4501	V	2.550	325	10.20					2.800	375	10							H	5.15		VS2158-412-A-141	2						FV	325	
0.75	MPS	113	4106	B1AS	HS	MIDDLE PRESSURE STEAM	113-MPS-0951																															

Max. Size (Inch)	Fluid Code	Unit Number	Line Sequence Number	Piping Class	Insulation Type	Line service Description	Line Origin	Line Termination	Operating Conditions				Alt. Operating Conditions				Design Conditions				Alt. Design Conditions				Tracing		Severe Cyclic Service (Y / -)	Slug Flow (Y / -)	AIV (Y / -)	Test		Remarks	P&ID Number	Rev.	Hold (H)	VOC (Y / -)	Cyclic for Paint	Steam out (Y / -)	Vacuum	
									Fluid Phase (L,V or LV)	Press. (MPa(g))	Temp. (degC)	Dens. (kg/m3)	Fluid Phase (L,V or LV)	Press. (MPa(g))	Temp. (degC)	Dens. (kg/m3)	Press. (MPa(g))	Temp. (degC)	MDMT (degC)	Press. (MPa(g))	Temp. (degC)	MDMT (degC)	Y / -	MMT	Media (P,H,S,V)	Press. (MPa(g))				External Press. (kPa(g))	Max. Temp. (degC)									
1	TSCW	113	4404	A2AP	NI	TURBINE SUSPECT CONDENSATE	113-TSCW-4403	113-ST-401	L	0.500	50	988.30					1.000	75	10							H	1.50		VS2158-412-A-137	1						FV	50			
1	TSCW	113	4504	A2AP	NI	TURBINE SUSPECT CONDENSATE	113-TSCW-4503	113-ST-501	L	0.500	50	988.30					1.000	75	10							H	1.50		VS2158-412-A-137	1						FV	50			
1	TSCW	113	4105	A2AP	NI	TURBINE SUSPECT CONDENSATE	113-TSCW-4103	113-ST-101-DS01	L	0.619	50	988.30					1.000	75	10							H	1.50		VS2158-412-A-137	1						FV	50			
1	TSCW	113	4205	A2AP	NI	TURBINE SUSPECT CONDENSATE	113-TSCW-4203	113-ST-201-DS01	L	0.619	50	988.30					1.000	75	10							H	1.50		VS2158-412-A-137	1						FV	50			
1	TSCW	113	4305	A2AP	NI	TURBINE SUSPECT CONDENSATE	113-TSCW-4303	113-ST-301-DS01	L	0.621	50	988.30					1.000	75	10							H	1.50		VS2158-412-A-137	1						FV	50			
1	TSCW	113	4405	A2AP	NI	TURBINE SUSPECT CONDENSATE	113-TSCW-4403	113-ST-401-DS01	L	0.621	50	988.30					1.000	75	10							H	1.50		VS2158-412-A-137	1						FV	50			
1	TSCW	113	4505	A2AP	NI	TURBINE SUSPECT CONDENSATE	113-TSCW-4503	113-ST-501-DS01	L	0.616	50	988.30					1.000	75	10							H	1.50		VS2158-412-A-137	1						FV	50			
2	TSCW	113	4106	A2AP	NI	TURBINE SUSPECT CONDENSATE	113-ST-101-E11	113-ST-101-E01	L	-0.0822	56	985.17					1.000	75	10							H	1.50		VS2158-412-A-138	1						FV	56			
2	TSCW	113	4206	A2AP	NI	TURBINE SUSPECT CONDENSATE	113-ST-201-E11	113-ST-201-E01	L	-0.0822	56	985.17					1.000	75	10							H	1.50		VS2158-412-A-138	1						FV	56			
2	TSCW	113	4306	A2AP	NI	TURBINE SUSPECT CONDENSATE	113-ST-301-E11	113-ST-301-E01	L	-0.0822	56	985.17					1.000	75	10							H	1.50		VS2158-412-A-138	1						FV	56			
2	TSCW	113	4406	A2AP	NI	TURBINE SUSPECT CONDENSATE	113-ST-401-E11	113-ST-401-E01	L	-0.0822	56	985.17					1.000	75	10							H	1.50		VS2158-412-A-138	1						FV	56			
2	TSCW	113	4506	A2AP	NI	TURBINE SUSPECT CONDENSATE	113-ST-501-E11	113-ST-501-E01	L	-0.093	56	985.17					1.000	75	10							H	1.50		VS2158-412-A-138	1						FV	56			
2	TSCW	113	4107	A2AP	NI	TURBINE SUSPECT CONDENSATE	113-ST-101-E11	113-ST-101-E01	L	-0.0822	85	968.46					1.000	95	10							H	1.50		VS2158-412-A-138	2	H					FV	HOLD 85			
2	TSCW	113	4207	A2AP	NI	TURBINE SUSPECT CONDENSATE	113-ST-201-E11	113-ST-201-E01	L	-0.0822	85	968.46					1.000	95	10							H	1.50		VS2158-412-A-138	2	H					FV	HOLD 85			
2	TSCW	113	4307	A2AP	NI	TURBINE SUSPECT CONDENSATE	113-ST-301-E11	113-ST-301-E01	L	-0.0822	83	969.70					1.000	95	10							H	1.50		VS2158-412-A-138	2	H					FV	HOLD 83			
2	TSCW	113	4407	A2AP	NI	TURBINE SUSPECT CONDENSATE	113-ST-401-E11	113-ST-401-E01	L	-0.0822	83	969.70					1.000	95	10							H	1.50		VS2158-412-A-138	2	H					FV	HOLD 83			
2	TSCW	113	4507	A2AP	NI	TURBINE SUSPECT CONDENSATE	113-ST-501-E11	113-ST-501-E01	L	-0.093	86	968.46					1.000	95	10							H	1.50		VS2158-412-A-138	2	H					FV	HOLD 86			
0.75	TSCW	113	4108	A2AP	NI	TURBINE SUSPECT CONDENSATE	113-TSCW-4103	113-TSCW-4110	L	0.619	50	988.30					1.000	75	10							H	1.50		VS2158-412-A-137	2	H					FV	50			
0.75	TSCW	113	4208	A2AP	NI	TURBINE SUSPECT CONDENSATE	113-TSCW-4203	113-TSCW-4210	L	0.619	50	988.30					1.000	75	10							H	1.50		VS2158-412-A-137	2	H					FV	50			
0.75	TSCW	113	4308	A2AP	NI	TURBINE SUSPECT CONDENSATE	113-TSCW-4303	113-TSCW-4310	L	0.621	50	988.30					1.000	75	10							H	1.50		VS2158-412-A-137	2	H					FV	50			
0.75	TSCW	113	4408	A2AP	NI	TURBINE SUSPECT CONDENSATE	113-TSCW-4403	113-TSCW-4410	L	0.621	50	988.30					1.000	75	10							H	1.50		VS2158-412-A-137	2	H					FV	50			
0.75	TSCW	113	4508	A2AP	NI	TURBINE SUSPECT CONDENSATE	113-TSCW-4503	113-TSCW-4510	L	0.616	50	988.30					1.000	75	10							H	1.50		VS2158-412-A-137	2	H					FV	50			
1	TSCW	113	4109	A2AP	NI	TURBINE SUSPECT CONDENSATE	113-ST-101-P01A/B	113-ST-101-E01	L	-0.089	50	988.00					1.000	75	10							H	1.50		VS2158-412-A-137	1						FV	50			
1	TSCW	113	4209	A2AP	NI	TURBINE SUSPECT CONDENSATE	113-ST-101-P01A/B	113-ST-201-E01	L	-0.089	50	988.00					1.000	75	10							H	1.50		VS2158-412-A-137	1						FV	50			
1	TSCW	113	4309	A2AP	NI	TURBINE SUSPECT CONDENSATE	113-ST-101-P01A/B	113-ST-301-E01	L	-0.089	50	988.00					1.000	75	10							H	1.50		VS2158-412-A-137	1						FV	50			
1	TSCW	113	4409	A2AP	NI	TURBINE SUSPECT CONDENSATE	113-ST-101-P01A/B	113-ST-401-E01	L	-0.089	50	988.00					1.000	75	10							H	1.50		VS2158-412-A-137	1						FV	50			
1	TSCW	113	4509	A2AP	NI	TURBINE SUSPECT CONDENSATE	113-ST-101-P01A/B	113-ST-501-E01	L	-0.089	50	988.00					1.000	75	10							H	1.50		VS2158-412-A-137	1	</									

Max. Size (Inch)	Fluid Code	Unit Number	Line Sequence Number	Piping Class	Insulation Type	Line service Description	Line Origin	Line Termination	Operating Conditions				Alt. Operating Conditions				Design Conditions			Alt. Design Conditions			Tracing		Severe Cyclic Service (Y / -)	Slug Flow (Y / -)	AIV (Y / -)	Test		Remarks	P&ID Number	Rev.	Hold (H)	VOC (Y / -)	Cyclic for Paint	Steam out (Y / -)	Vacuum	
									Fluid Phase (L,V or LV)	Press. (MPa(g))	Temp. (degC)	Dens. (kg/m3)	Fluid Phase (L,V or LV)	Press. (MPa(g))	Temp. (degC)	Dens. (kg/m3)	Press. (MPa(g))	Temp. (degC)	MDMT (degC)	Press. (MPa(g))	Temp. (degC)	MDMT (degC)	Y / -	MMT				Media (P,H,S,V)	Press. (MPa(g))								External Press. (kPa(g))	Max. Temp. (degC)
12	V	113	4304	B0MS	PC	STEAM ORI/AND AIR VENT	113-HHPS-4303	113-V-4307	V	0.070	455	0.49					0.343	480	10							V	-		VS2158-412-A-071	2	H				FV	455		
12	V	113	4404	B0MS	PC	STEAM ORI/AND AIR VENT	113-HHPS-4403	113-V-4407	V	0.070	455	0.49					0.343	480	10							V	-		VS2158-412-A-071	2	H				FV	455		
12	V	113	4504	A1AS	PC	STEAM ORI/AND AIR VENT	113-V-4505	113-SP-9005	V	0.070	405	0.45					0.343	425	10							V	-		VS2158-412-A-141	2	H				FV	405		
8	V	113	4105	B0MS	PC	STEAM ORI/AND AIR VENT	113-PSV-7114	113-V-4104	V	0.000	40	0.62	V	0.07	436		0.343	480	10							V	-	Alt. operating is PSV relieving case : Blocked outlet	VS2158-412-A-140	2	H							
8	V	113	4205	B0MS	PC	STEAM ORI/AND AIR VENT	113-PSV-7214	113-V-4204	V	0.000	40	0.62	V	0.07	436		0.343	480	10							V	-	Alt. operating is PSV relieving case : Blocked outlet	VS2158-412-A-140	2	H							
8	V	113	4305	B0MS	PC	STEAM ORI/AND AIR VENT	113-PSV-7314	113-V-4307	V	0.000	40	0.62	V	0.07	436		0.343	480	10							V	-	Alt. operating is PSV relieving case : Blocked outlet	VS2158-412-A-139	2	H							
8	V	113	4405	B0MS	PC	STEAM ORI/AND AIR VENT	113-PSV-7414	113-V-4407	V	0.000	40	0.62	V	0.07	436		0.343	480	10							V	-	Alt. operating is PSV relieving case : Blocked outlet	VS2158-412-A-139	2	H							
8	V	113	4505	A1AS	PC	STEAM ORI/AND AIR VENT	113-PSV-7514	113-V-4504	V	0.000	40	0.62	V	0.07	436		0.343	425	10							V	-	Alt. operating is PSV relieving case : Blocked outlet	VS2158-412-A-141	2	H							
12	V	113	4506	A1AS	PC	STEAM ORI/AND AIR VENT	113-HPS-4503	113-V-4504	V	0.070	405	0.45					0.343	425	10							V	-		VS2158-412-A-073	2						FV	405	
14 (HOLD)	V	113	4106	A1AP	PC	STEAM ORI/AND AIR VENT	113-PSV-7109	113-SP-9001	V	0.000	40	0.62	V	0.07	408		0.343	480	10							V	-	Alt. operating is PSV relieving case : Blocked outlet	VS2158-412-A-072	2	H							
14 (HOLD)	V	113	4206	A1AP	PC	STEAM ORI/AND AIR VENT	113-PSV-7209	113-SP-9002	V	0.000	40	0.62	V	0.07	408		0.343	480	10							V	-	Alt. operating is PSV relieving case : Blocked outlet	VS2158-412-A-072	2	H							
12 (HOLD)	V	113	4306	B0MS	PC	STEAM ORI/AND AIR VENT	113-PSV-7309A	113-V-4307	V	0.000	40	0.62	V	0.07	439		0.343	480	10							V	-	Alt. operating is PSV relieving case : Blocked outlet	VS2158-412-A-071	2	H							
12 (HOLD)	V	113	4406	B0MS	PC	STEAM ORI/AND AIR VENT	113-PSV-7409A	113-V-4407	V	0.000	40	0.62	V	0.07	439		0.343	480	10							V	-	Alt. operating is PSV relieving case : Blocked outlet	VS2158-412-A-071	2	H							
12	V	113	4107	B0MS	PC	STEAM ORI/AND AIR VENT	113-HHPS-4103	113-V-4104	V	0.070	455	0.49					0.343	480	10							V	-	ADDED	VS2158-412-A-072	2						FV	455	
12	V	113	4207	B0MS	PC	STEAM ORI/AND AIR VENT	113-HHPS-4203	113-V-4204	V	0.070	455	0.49					0.343	480	10							V	-	ADDED	VS2158-412-A-072	2						FV	455	
20	V	113	4307	B0MS	PC	STEAM ORI/AND AIR VENT	113-V-4305	113-SP-9003	V	0.000	40	0.62	V	0.07	439		0.343	480	10							V	-	Alt. operating is PSV relieving case : Blocked outlet	VS2158-412-A-071	2	H							
20	V	113	4407	B0MS	PC	STEAM ORI/AND AIR VENT	113-V-4405	113-SP-9004	V	0.000	40	0.62	V	0.07	439		0.343	480	10							V	-	Alt. operating is PSV relieving case : Blocked outlet	VS2158-412-A-071	2	H							
12 (HOLD)	V	113	4308	B0MS	PC	STEAM ORI/AND AIR VENT	113-PSV-7309B	113-V-4307	V	0.000	40	0.62	V	0.07	439		0.343	480	10							V	-	Alt. operating is PSV relieving case : Blocked outlet	VS2158-412-A-071	2	H							
12 (HOLD)	V	113	4309	B0MS	PC	STEAM ORI/AND AIR VENT	113-PSV-7309C	113-V-4307	V	0.000	40	0.62	V	0.07	439		0.343	480	10							V	-	Alt. operating is PSV relieving case : Blocked outlet	VS2158-412-A-071	2	H							
12 (HOLD)	V	113	4408	B0MS	PC	STEAM ORI/AND AIR VENT	113-PSV-7409B	113-V-4407	V	0.000	40	0.62	V	0.07	439		0.343	480	10							V	-	Alt. operating is PSV relieving case : Blocked outlet	VS2158-412-A-071	2	H							
12 (HOLD)	V	113	4409	B0MS	PC	STEAM ORI/AND AIR VENT	113-PSV-7409C	113-V-4407	V	0.000	40	0.62	V	0.07	439		0.343	480	10							V	-	Alt. operating is PSV relieving case : Blocked outlet	VS2158-412-A-071	2	H							
6	V	113	4110	A0JP	NI	EXHAUST FROM MIST SEPARATOR	TP-7177A	TP-7177B	V	0.000	65						1.000	90	10							H	1.50	ADDED	VS2158-412-A-145	2								
6	V	113	4210	A0JP	NI	EXHAUST FROM MIST SEPARATOR	TP-7277A	TP-7277B	V	0.000	65						1.000	90	10							H	1.50	ADDED	VS2158-412-A-145	2								
6	V	113	4310	A0JP	NI	EXHAUST FROM MIST SEPARATOR	TP-7377A	TP-7377B	V	0.000	65						1.000	90	10							H	1.50	ADDED	VS2158-412-A-145	2								
6	V	113	4410	A0JP	NI	EXHAUST FROM MIST SEPARATOR	TP-7477A	TP-7477B	V	0.000	65						1.000	90	10							H	1.50	ADDED	VS2158-412-A-145	2								
6	V	113	4510	A0JP	NI	EXHAUST FROM MIST SEPARATOR	TP-7577A	TP-7577B	V	0.000	65						1.000	90	10							H	1.50	ADDED	VS2158-412-A-145	2								
1	WO	113	3001	A2AW	NI	CONTINUALLY OIL-CONTAMINATED WASTE WATER	113-AT-0001	COC	L	0.500	50	958.00					0.975	75	10							-H	1.47	DELETED	113-0001S	2								
1	WO	113	3002	A2AW	NI	CONTINUALLY OIL-CONTAMINATED WASTE WATER	113-AT-0002	COC	L	0.500	50	958.00					0.975	75	10							-H	1.47	DELETED	113-0002S	2								
1	WO	113	3003	A2AW	NI	CONTINUALLY OIL-CONTAMINATED WASTE WATER	113-AT-0003	COC	L	0.500	50	958.00					0.975	75	10							-H	1.47	DELETED	113-0003S	2								
1	WO	113	3004	A2AW	NI	CONTINUALLY OIL-CONTAMINATED WASTE WATER	113-AT-0004	COC	L	0.500	50	958.00					0.975	75	10							-H	1.47	DELETED	113-0004S	2								
1	WO	113	3005	A2AW	NI	CONTINUALLY OIL-CONTAMINATED WASTE WATER	113-AT-0005	COC	L	0.500	50	958.00					0.975	7																				