

SINGLE PASS CONSTANT FLOW
WATER COOLED BUSHINGS[LINE NO : 3/4-517-L-GC ***-XX/N] THE (**-XX/N) INDICATED IN THIS DRAWING
MEAN THE LINE NUMBER

*.517-L-GC *** - XX /N

EQUIPMENT
CATEGORY
PLANT SYSTEM CODE
PIPE LINE SERIAL
LINE SIZE (INCH.)

INSULATION CLASS
V: FIBER GLASS WITH VAPOR BARRIER AND AL. JACKET FOR ANTI SWEAT
T: CALCIUM SILICATE WITH AL JACKET FOR HEAT TRACED PIPING
C: CALCIUM SILICATE WITH AL JACKET FOR HEAT RETENTION
A: CALCIUM SILICATE WITH AL JACKET FOR PERSONAL PROTECTION OR MINERAL
FIBER FOR TUBING LINE ONLY
N: NO INSULATION

[LINE NO : 3/4-517-L-GC ***-XX/N] THE (**-XX/N) INDICATED IN THIS DRAWING

*.517-L-GC *** - XX /N

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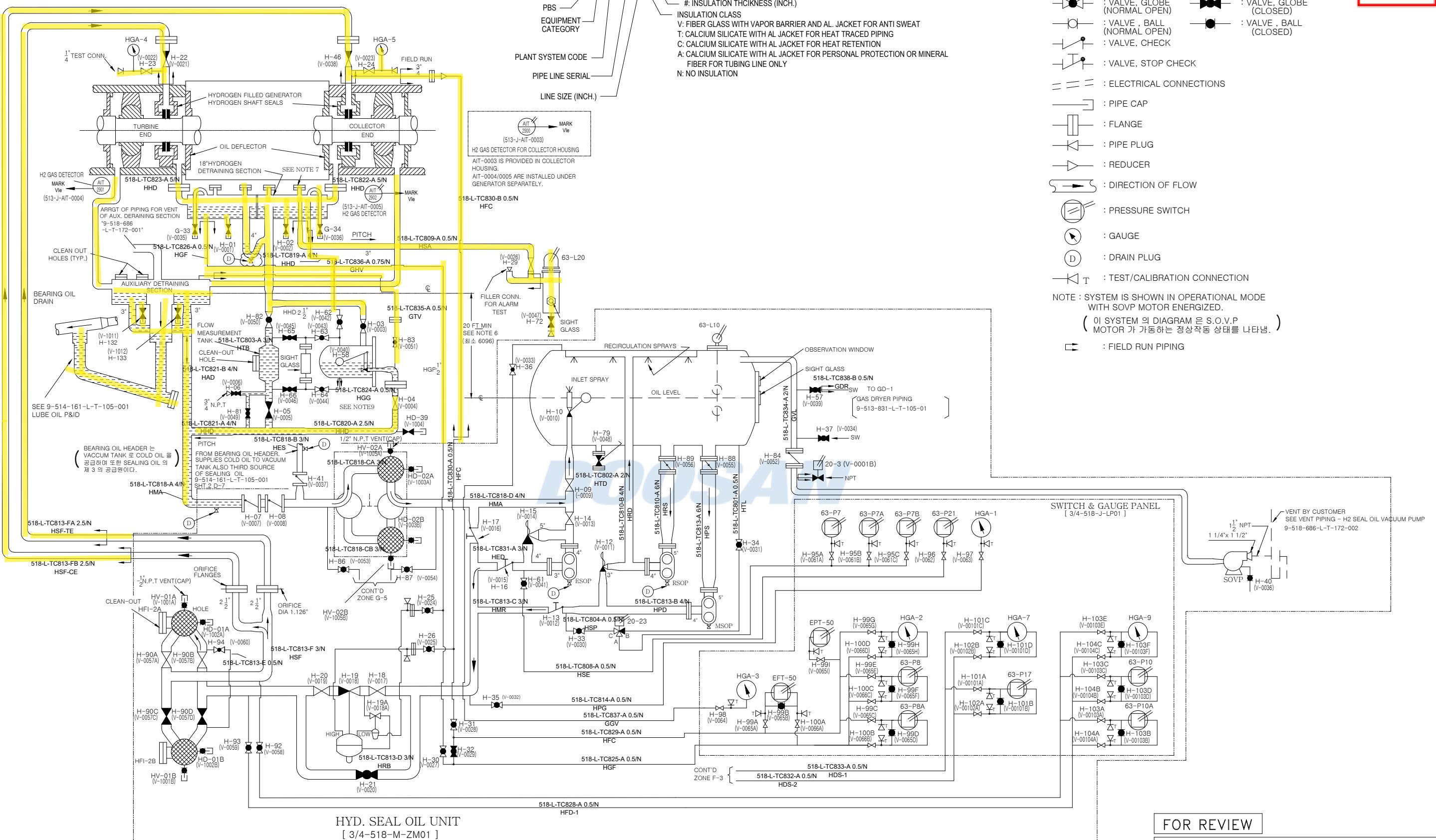
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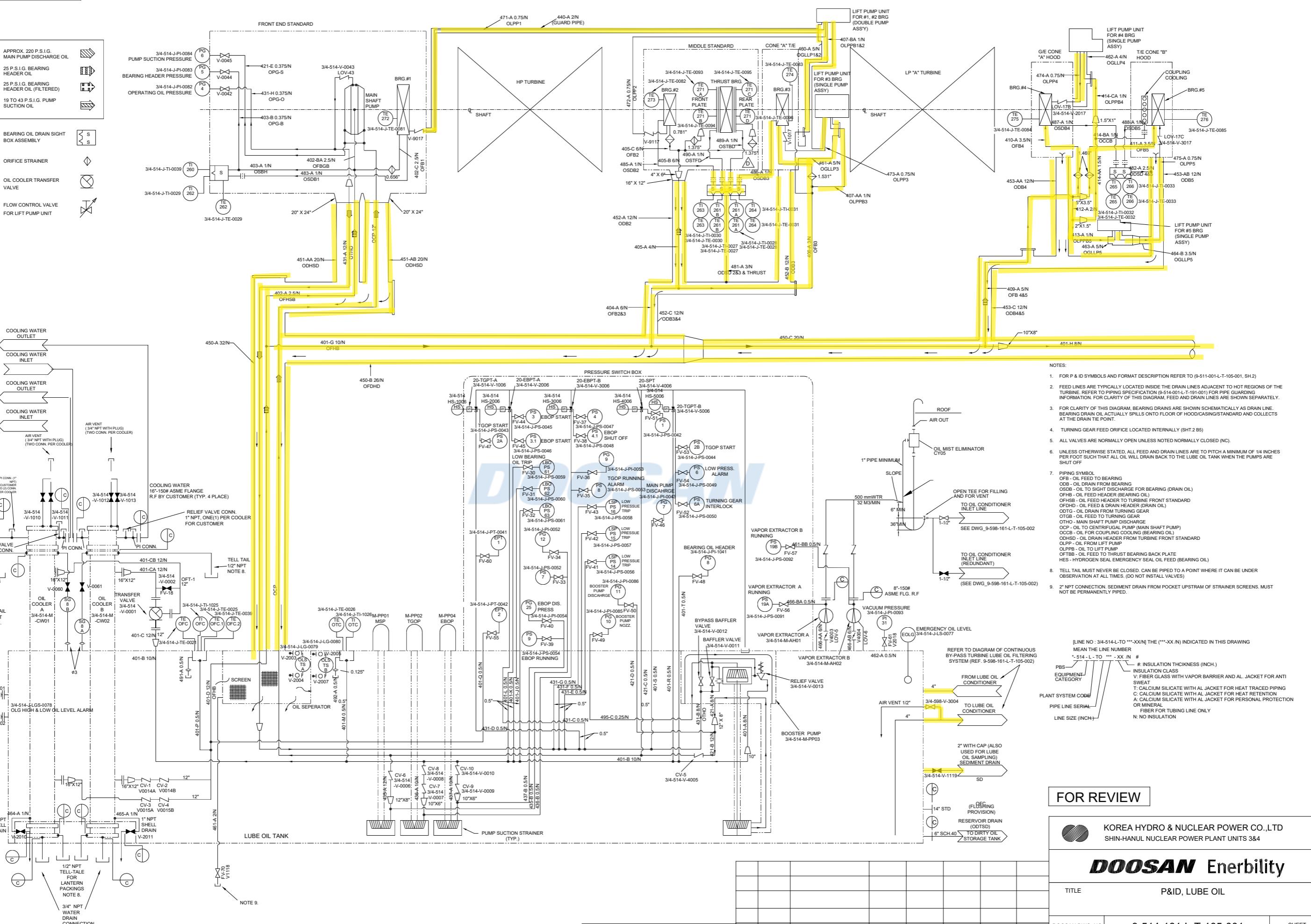
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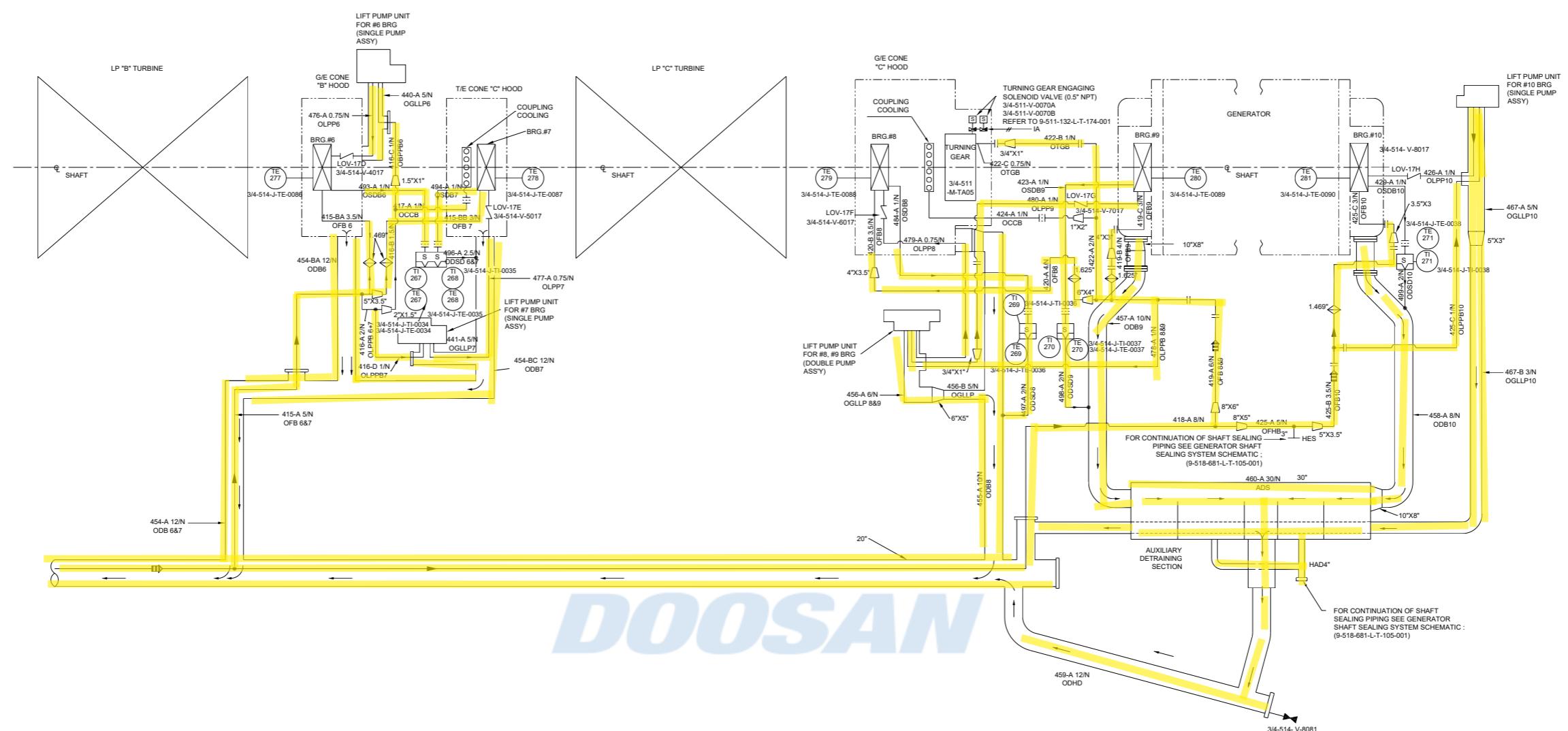


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FOR REVIEW									
KOREA HYDRO & NUCLEAR POWER CO.,LTD SHIN-HANUL NUCLEAR POWER PLANT UNITS 3&4					DOOSAN Enerbility				
TITLE GENERATOR SHAFT SEAL SYSTEM SCHEMATIC					DOOSAN DWG NO 9-518-681-L-T-105-001				
PROJECT DWG NO 9-518-681-L-T-105-001					SHEET 1 OF 2				
REV.	DATE	DESCRIPTION	DRN	DGN	CK	RV	APP	11C64	N/S



NQ



FOR REVIEW

 KOREA HYDRO & NUCLEAR POWER CO., LTD
SHIN-HANUL NUCLEAR POWER PLANT UNITS 3&4
DOOSAN Enerbility

TITLE P&ID, LUBE OIL

DOOSAN DWG NO 9-514-161-L-T-105-001 SHEET

PROJECT DWG NO 9-514-161-L-T-105-001 2 OF 3

JOB NO. SAFETY CATEGORY AREA CODE SCALE REV.

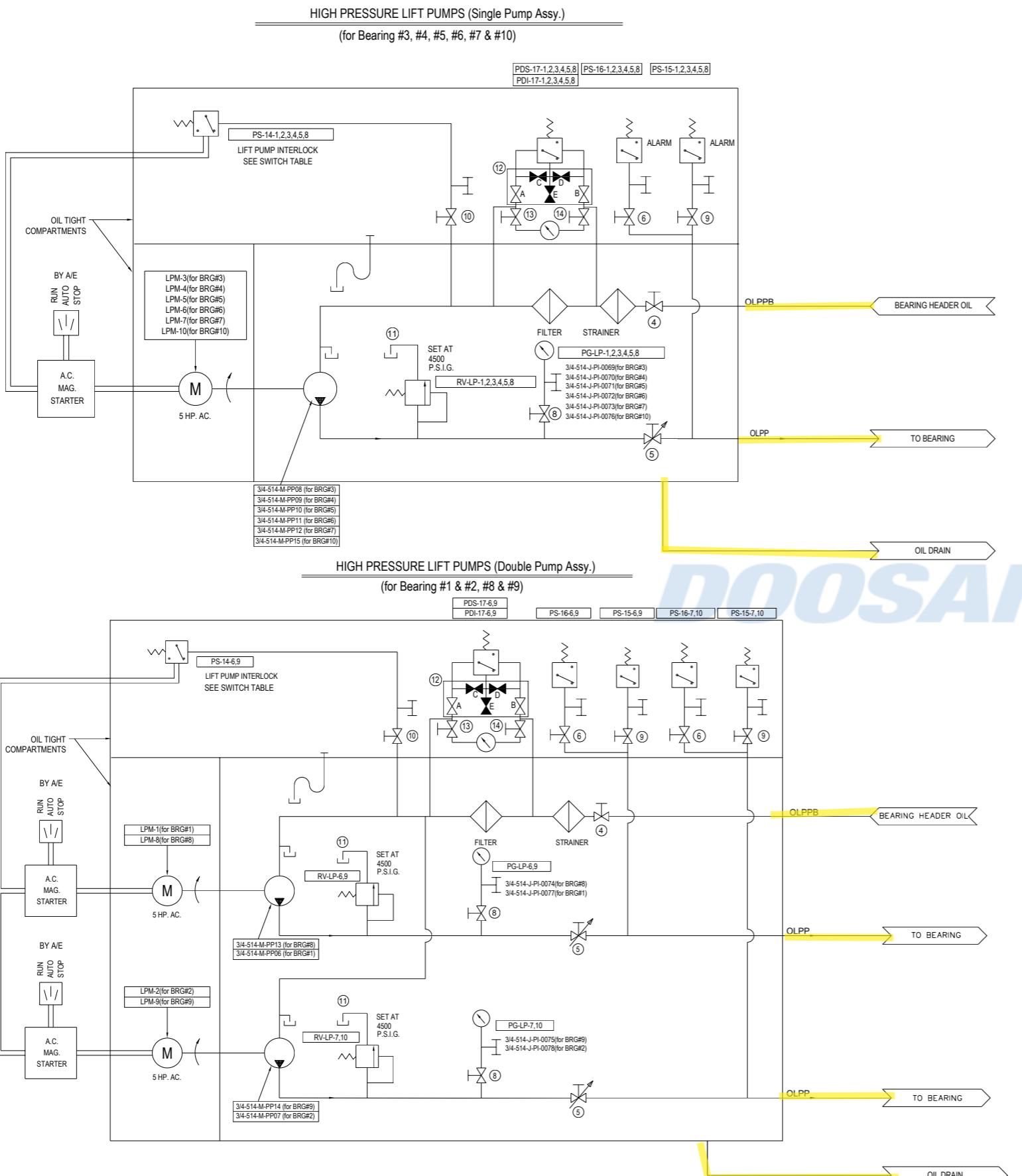
11C64 N N/S A

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REV.	DATE	DESCRIPTION	DRN	DGN	CK	RV	APP
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[CONFIDENTIAL] Byeongchan Jang / 2025-02-28 15:22 / swangtae Ha / 2025-03-05 07:38 / Sangyoub Lee / 2025-03-05 08:07 / Service/CCP Piping Engineering Team



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MISCELLANEOUS REFERENCE INFORMATION		PRESSURE SWITCH NOTES	
ITEM	ENGLISH	MKS METRIC	
LUBE OIL SYSTEM	18 PSIG 25 PSIG 40 PSIG 220 PSIG	1.265 kg/cm ² 1.757 kg/cm ² 2.812 kg/cm ² 15.467 kg/cm ²	
PRESSURE RELIEF VALVES	4500 PSIG	316.388 kg/cm ²	
MOTORS	5 HP	3.7 kW	

PRESSURE SWITCH CONTACTS OPERATE AT PRESSURE (P.S.I.G.)
INCREASE AND DECREASE AS FOLLOWS:

SWITCH	INCREASE	DECREASE
PS-14-1~9	5 (C)	3 (O)
PS-16-1~9	HIGH 900 (O)	HIGH 840 (C)
PS-15-1~9	LOW 325 (O)	LOW 265 (C)
PS-16-10	HIGH 550 (O)	HIGH 500 (C)
PS-15-10	LOW 325 (O)	LOW 265 (C)

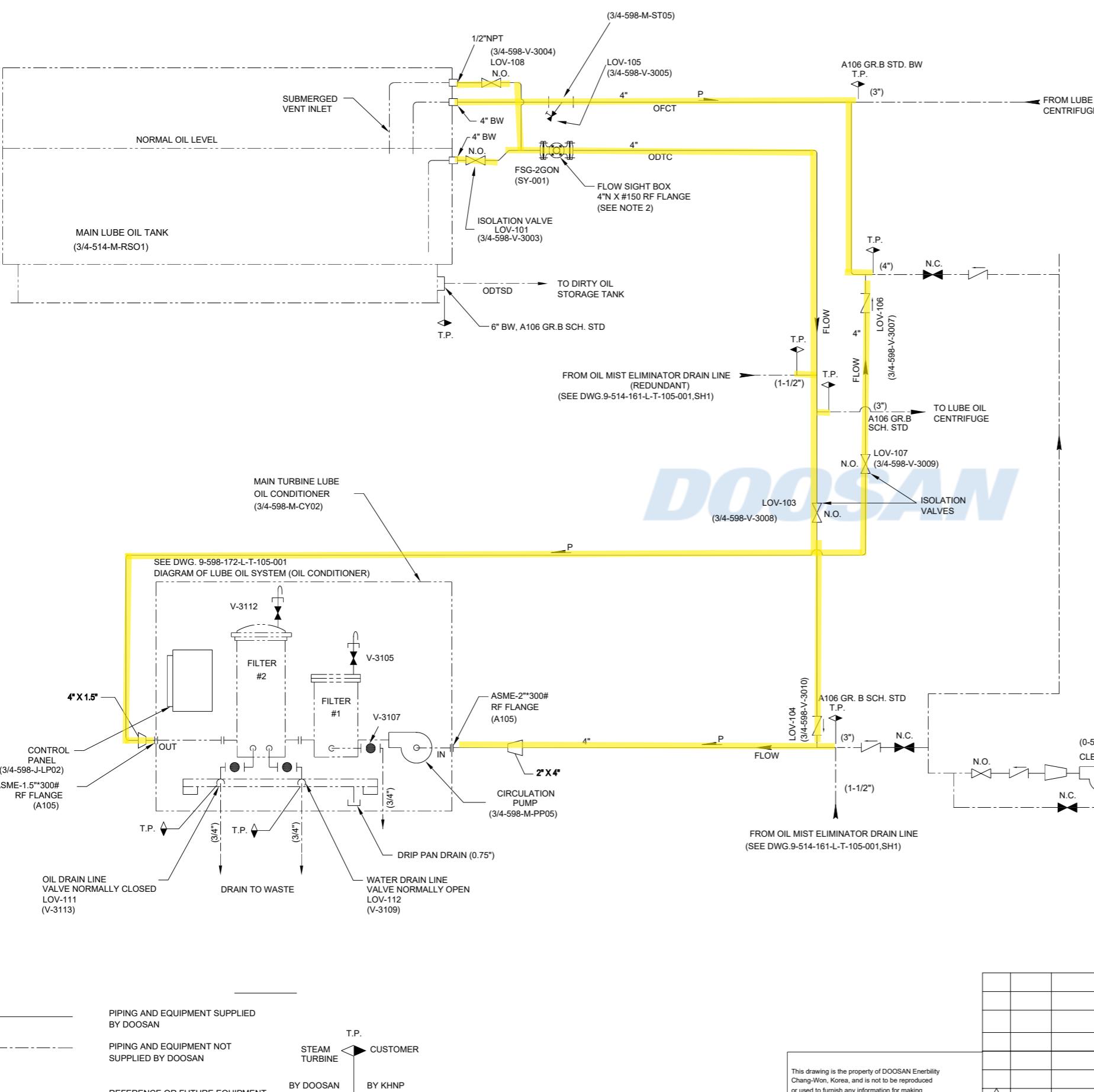
CONTACTS OPEN (O) - CLOSED (C)
PS-15, PS-16 FOR LOW PRESS. ALARM
(HIGH: HIGH PRESS SET, LOW: LOW PRESS SET.)

PRESSURE SWITCHES		LIFT PUMP NO.	BRG NO.	ENGLISH		MKS METRIC	
SWITCH ID				INCREASE	DECREASE	INCREASE	DECREASE
PS-14-1	3/4-514-J-PS-0062	#3	#3 BRG	5 P.S.I.G.	3 P.S.I.G.	0.352 Kg/cm ²	0.211 Kg/cm ²
PS-14-2	3/4-514-J-PS-0063	#4	#4 BRG	5 P.S.I.G.	3 P.S.I.G.	0.352 Kg/cm ²	0.211 Kg/cm ²
PS-14-3	3/4-514-J-PS-0064	#5	#5 BRG	5 P.S.I.G.	3 P.S.I.G.	0.352 Kg/cm ²	0.211 Kg/cm ²
PS-14-4	3/4-514-J-PS-0065	#6	#6 BRG	5 P.S.I.G.	3 P.S.I.G.	0.352 Kg/cm ²	0.211 Kg/cm ²
PS-14-5	3/4-514-J-PS-0066	#7	#7 BRG	5 P.S.I.G.	3 P.S.I.G.	0.352 Kg/cm ²	0.211 Kg/cm ²
PS-14-6	3/4-514-J-PS-0067	#8,9	#8,9 BRG	5 P.S.I.G.	3 P.S.I.G.	0.352 Kg/cm ²	0.211 Kg/cm ²
PS-14-8	3/4-514-J-PS-0068	#10	#10 BRG	5 P.S.I.G.	3 P.S.I.G.	0.352 Kg/cm ²	0.211 Kg/cm ²
PS-14-9	3/4-514-J-PS-0079	#1,2	#1,2 BRG	5 P.S.I.G.	3 P.S.I.G.	0.352 Kg/cm ²	0.211 Kg/cm ²
PS-16-1(HIGH)	3/4-514-J-PS-0069	#3	#3 BRG	900 P.S.I.G.	840 P.S.I.G.	63.277 Kg/cm ²	59.059 Kg/cm ²
PS-16-2(HIGH)	3/4-514-J-PS-0070	#4	#4 BRG	900 P.S.I.G.	840 P.S.I.G.	63.277 Kg/cm ²	59.059 Kg/cm ²
PS-16-3(HIGH)	3/4-514-J-PS-0071	#5	#5 BRG	900 P.S.I.G.	840 P.S.I.G.	63.277 Kg/cm ²	59.059 Kg/cm ²
PS-16-4(HIGH)	3/4-514-J-PS-0072	#6	#6 BRG	900 P.S.I.G.	840 P.S.I.G.	63.277 Kg/cm ²	59.059 Kg/cm ²
PS-16-5(HIGH)	3/4-514-J-PS-0073	#7	#7 BRG	900 P.S.I.G.	840 P.S.I.G.	63.277 Kg/cm ²	59.059 Kg/cm ²
PS-16-6(HIGH)	3/4-514-J-PS-0074	#8	#8 BRG	900 P.S.I.G.	840 P.S.I.G.	63.277 Kg/cm ²	59.059 Kg/cm ²
PS-16-7(HIGH)	3/4-514-J-PS-0075	#9	#9 BRG	900 P.S.I.G.	840 P.S.I.G.	63.277 Kg/cm ²	59.059 Kg/cm ²
PS-16-8(HIGH)	3/4-514-J-PS-0076	#10	#10 BRG	900 P.S.I.G.	840 P.S.I.G.	63.277 Kg/cm ²	59.059 Kg/cm ²
PS-16-9(HIGH)	3/4-514-J-PS-0077	#1	#1 BRG	900 P.S.I.G.	840 P.S.I.G.	63.277 Kg/cm ²	59.059 Kg/cm ²
PS-16-10(HIGH)	3/4-514-J-PS-0078	#2	#2 BRG	550 P.S.I.G.	500 P.S.I.G.	38.669 Kg/cm ²	35.153 Kg/cm ²
PS-15-1(LOW)	3/4-514-J-PS-0080	#3	#3 BRG	325 P.S.I.G.	265 P.S.I.G.	22.850 Kg/cm ²	18.631 Kg/cm ²
PS-15-2(LOW)	3/4-514-J-PS-0081	#4	#4 BRG	325 P.S.I.G.	265 P.S.I.G.	22.850 Kg/cm ²	18.631 Kg/cm ²
PS-15-3(LOW)	3/4-514-J-PS-0082	#5	#5 BRG	325 P.S.I.G.	265 P.S.I.G.	22.850 Kg/cm ²	18.631 Kg/cm ²
PS-15-4(LOW)	3/4-514-J-PS-0083	#6	#6 BRG	325 P.S.I.G.	265 P.S.I.G.	22.850 Kg/cm ²	18.631 Kg/cm ²
PS-15-5(LOW)	3/4-514-J-PS-0084	#7	#7 BRG	325 P.S.I.G.	265 P.S.I.G.	22.850 Kg/cm ²	18.631 Kg/cm ²
PS-15-6(LOW)	3/4-514-J-PS-0085	#8	#8 BRG	325 P.S.I.G.	265 P.S.I.G.	22.850 Kg/cm ²	18.631 Kg/cm ²
PS-15-7(LOW)	3/4-514-J-PS-0086	#9	#9 BRG	325 P.S.I.G.	265 P.S.I.G.	22.850 Kg/cm ²	18.631 Kg/cm ²
PS-15-8(LOW)	3/4-514-J-PS-0087	#10	#10 BRG	325 P.S.I.G.	265 P.S.I.G.	22.850 Kg/cm ²	18.631 Kg/cm ²
PS-15-9(LOW)	3/4-514-J-PS-0088	#1	#1 BRG	325 P.S.I.G.	265 P.S.I.G.	22.850 Kg/cm ²	18.631 Kg/cm ²
PS-15-10(LOW)	3/4-514-J-PS-0089	#2	#2 BRG	325 P.S.I.G.	265 P.S.I.G.	22.850 Kg/cm ²	18.631 Kg/cm ²
PDS-17-1	3/4-514-J-PDS-0162	#3	#3 BRG				
PDS-17-2	3/4-514-J-PDS-0163	#4	#4 BRG				
PDS-17-3	3/4-514-J-PDS-0164	#5	#5 BRG				
PDS-17-4	3/4-514-J-PDS-0165	#6	#6 BRG				
PDS-17-5	3/4-514-J-PDS-0166	#7	#7 BRG				
PDS-17-6	3/4-514-J-PDS-0167	#8,9	#8,9 BRG				
PDS-17-8	3/4-514-J-PDS-0168	#10	#10 BRG				
PDS-17-9	3/4-514-J-PDS-0169	#1,2	#1,2 BRG				

LP NO.	(4)	(5)	(6)	(8)	(9)	(10)	(11)	(12)	Remarks
#3	3/4-514-V-1014	3/4-514-V-1015	3/4-514-V-1016	3/4-514-V-1018	3/4-514-V-1019	3/4-514-V-1020	3/4-514-V-1301	3/4-514-V-1039	Bearing #3
#4	3/4-514-V-2014	3/4-514-V-2015	3/4-514-V-2016	3/4-514-V-2118	3/4-514-V-2019	3/4-514-V-2020	3/4-514-V-1302	3/4-514-V-2030	Bearing #4
#5	3/4-514-V-3014	3/4-514-V-3015	3/4-514-V-3016	3/4-514-V-3018	3/4-514-V-3019	3/4-514-V-3020	3/4-514-V-1303	3/4-514-V-3030	Bearing #5
#6	3/4-514-V-4014	3/4-514-V-4015	3/4-514-V-4016	3/4-514-V-4018	3/4-514-V-4019	3/4-514-V-4020	3/4-514-V-1304	3/4-514-V-4030	Bearing #6
#7	3/4-514-V-5014	3/4-514-V-5015	3/4-514-V-5016	3/4-514-V-5018	3/4-514-V-5019	3/4-514-V-5020	3/4-514-V-1305	3/4-514-V-5030	Bearing #7
#8	3/4-514-V-6014	3/4-514-V-6015	3/4-514-V-6016	3/4-514-V-6018	3/4-514-V-6019	3/4-514-V-6020	3/4-514-V-1306	3/4-514-V-6030	Bearing #8
#9	3/4-514-V-7014	3/4-514-V-7015	3/4-514-V-7016	3/4-514-V-7018	3/4-514-V-7019	3/4-514-V-1307			Bearing #9
#10	3/4-514-V-8014	3/4-514-V-8015	3/4-514-V-8016	3/4-514-V-8018	3/4-514-V-8019	3/4-514-V-8020	3/4-514-V-1308	3/4-514-V-8030	Bearing #10
#1	3/4-514-V-9014	3/4-514-V-9015	3/4-514-V-9016	3/4-514-V-9018	3/4-514-V-9019	3/4-514-V-9020	3/4-514-V-1309	3/4-514-V-9030	Bearing #1
#2	3/4-514-V-9114	3/4-514-V-9115	3/4-514-V-9116	3/4-514-V-9118	3/4-514-V-9119	3/4-514-V-1310			Bearing #2

LP NO.	(13)	(14)	Remarks

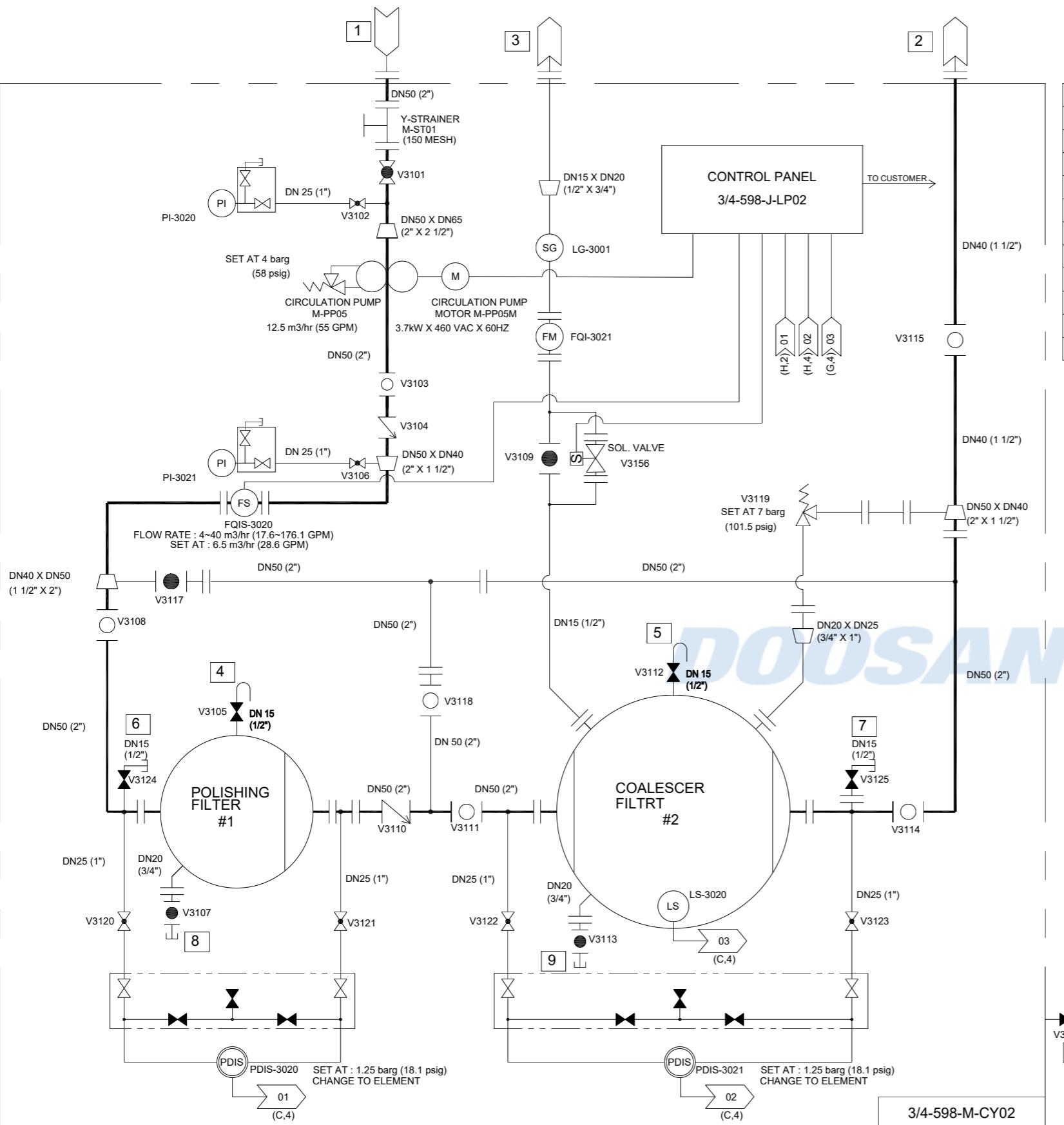
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REV.	DATE	DESCRIPTION	DRN	DGN	CK	RV	APP	11C64	N	N/S	A

A1(594X841)

CONT. NO



NOZZLE DATA (Refer to NO.)

NO.	DESCRIPTION	SIZE	Q'TY	MATERIAL	REMARKS
1	CONDITIONER SUCTION	ASME #150 x DN50 (2") -SW(RF)	1	A105	-
2	CONDITIONER DISCHARGE	ASME #150 x DN40 (1 1/2") -SW(RF)	1	A105	-
3	CONDITIONER WATER DRAIN	ASME #150 x DN20 (3/4") -SW(RF)	1	A105	-
4	POLISHING FILTER AIR VENT	ASME #150 x DN15 (1/2") PIPING	1	A106-B	-
5	COALESCER FILTER AIR VENT	ASME #150 x DN15 (1/2") PIPING	1	A106-B	-
6	DIRTY SAMPLING VALVE	ASME #150 x DN15 (1/2")-NPT	1	A105	-
7	CLEAN SAMPLING VALVE	ASME #150 x DN15 (1/2")-NPT	1	A105	-
8	POLISHING FILTER OIL DRAIN VALVE	ASME #150 x DN20 (3/4")-SW	1	A105	-
9	COALESCER FILTER OIL DRAIN VALVE	ASME #150 x DN20 (3/4")-SW	1	A105	-
10	SIKD DRAIN VALVE	ASME #150 x DN20 (3/4")-SW	1	A105	-

NOTE:

1. PROCESS FLOW SYMBOLS PER ANSI Y32.11 ARE USED ON THIS SCHEMATIC.
2. ABBREVIATION
S - NORMALLY CLOSED SOLENOID VALVE
M- MOTOR
PI- PRESSURE INDICATOR
PDIS - DIFFERENTIAL PRESSURE INDICATOR SWITCH
LS - LEVEL SWITCH
FM - FLOW METER
SG - SIGHT GLASS
FS - FLOW SWITCH
3. TAG NO
- VALVE : 3/4-598-#
- INSTRUMENT : 3/4-598-J-#
- ELECTRIC PANEL : 3/4-598-J-LP02
4. REFERENCE DRAWING
- 9-598-172-L-T-174-001 : LUBE OIL CONDITIONER OUTLINE
- 9-514-172-L-T-144-001 : LUBE OIL CONDITIONER WIRING DIAGRAM
5. VALVE SYMBOL (CONNECTION TYPE)
 - |○| : BALL VALVE (SW)
 - ☒ : GLOBE VALVE (SW)
 - ☒ : GATE VALVE (SW)
 - ☒ : CHECK VALVE (SW)
 - ☒ : RELIEF VALVE

FOR REVIEW

KOREA HYDRO & NUCLEAR POWER CO.,LTD
SHIN-HANUL NUCLEAR POWER PLANT UNITS 3&4

DOOSAN Enerbility

TITLE DIAGRAM OF LUBE OIL SYSTEM
(OIL CONDITIONER)

DWG. NO. 9-598-172-L-T-105-001 SHEET

PROJECT DWG NO. 9-598-172-L-T-105-001 1 OF 1

REV. A

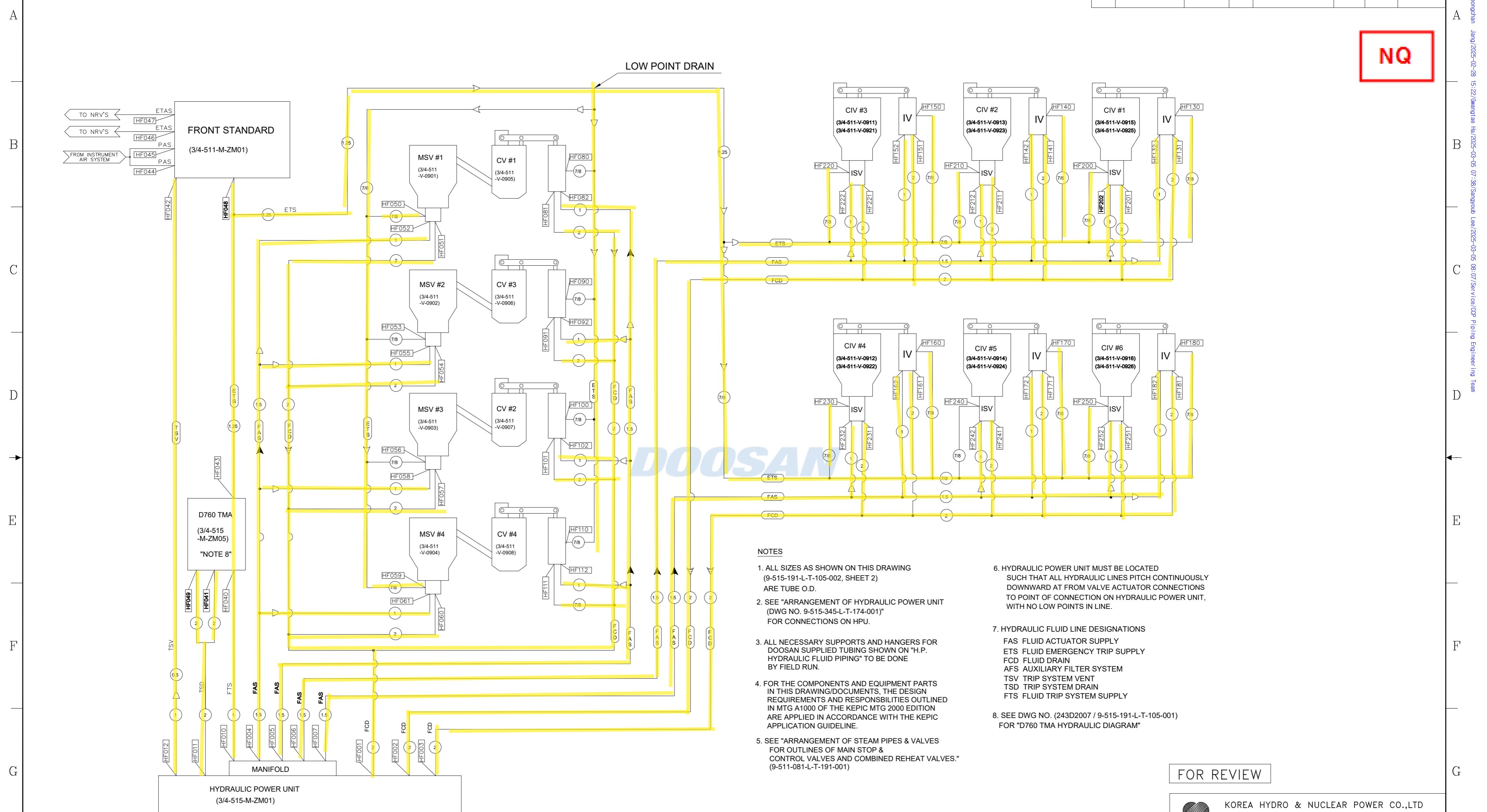
REV. DATE DESCRIPTION DRN DGN CK RV APP 11C64 N

SAFETY CATEGORY AREA CODE SCALE

N/S A

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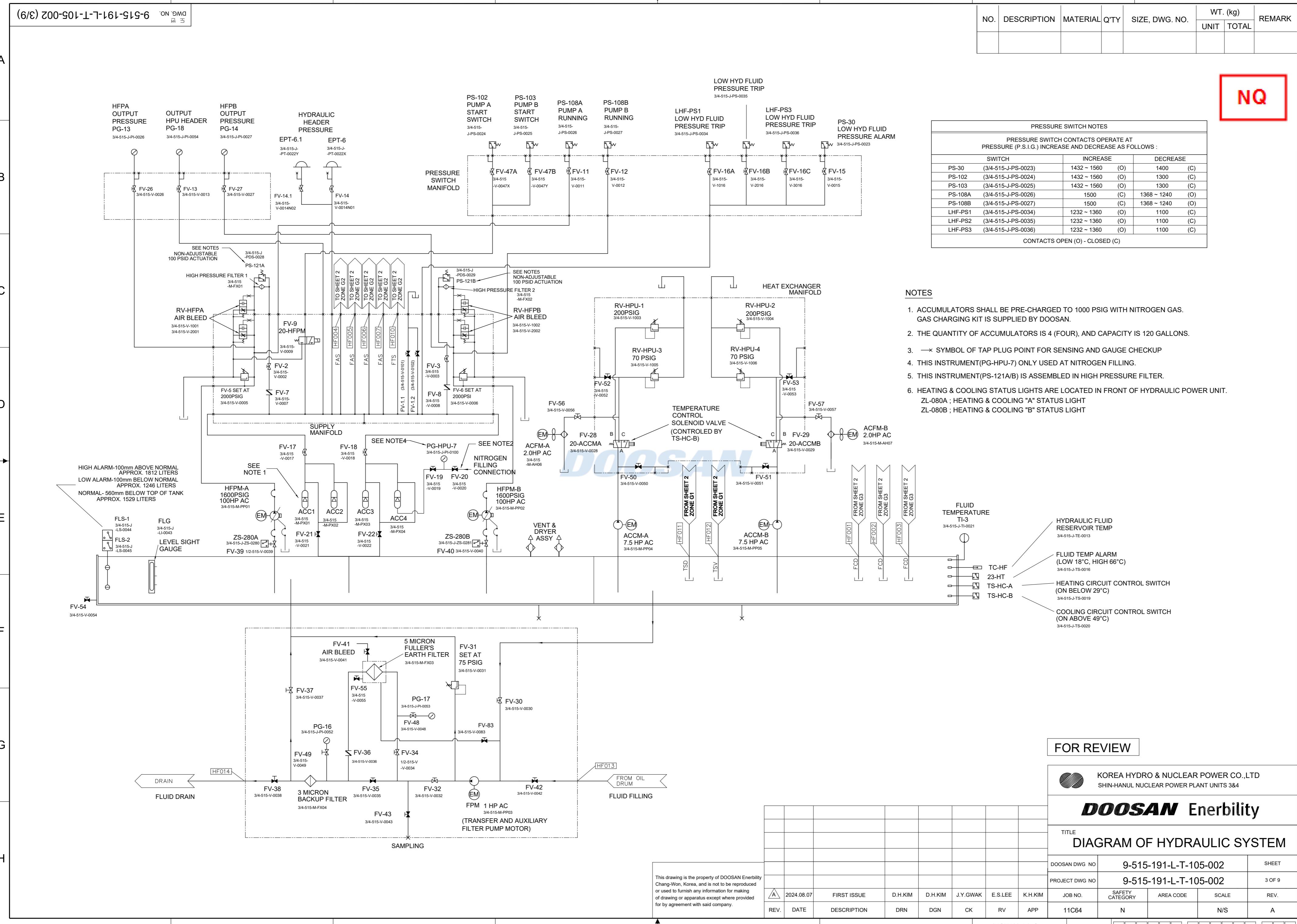
DWG. NO. 9-515-191-L-T-105-002 (2/9)



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REV.	DATE	DESCRIPTION	DRN	DGN	CK	RV	APP	JOB NO.	Safety Category	Area Code	Scale	Rev.
			11C64		N							A

NQ



NQ

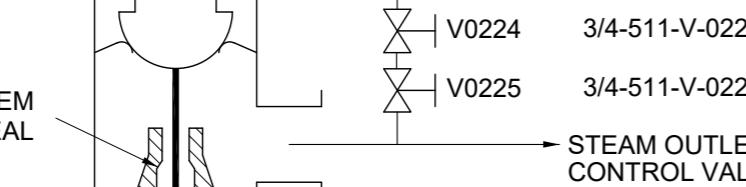
DWG. NO. 9-515-191-L-T-105-002 (5/9)

MAIN STOP VALVE

(SV-1) 3/4-511-V-0901
(SV-3) 3/4-511-V-0903
(SV-4) 3/4-511-V-0904

STEAM INLET

STEM SEAL

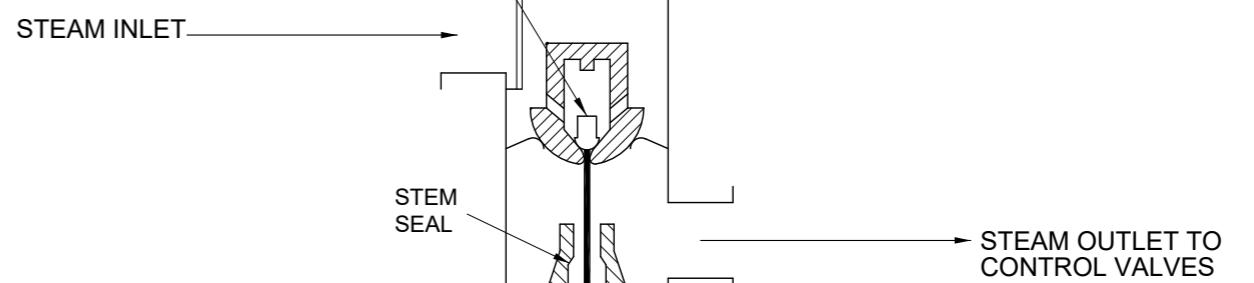
PT-201 ON SV-1 3/4-511-J-PT-0135
V0224 3/4-511-V-0224
V0225 3/4-511-V-0225

STEAM OUTLET TO CONTROL VALVES

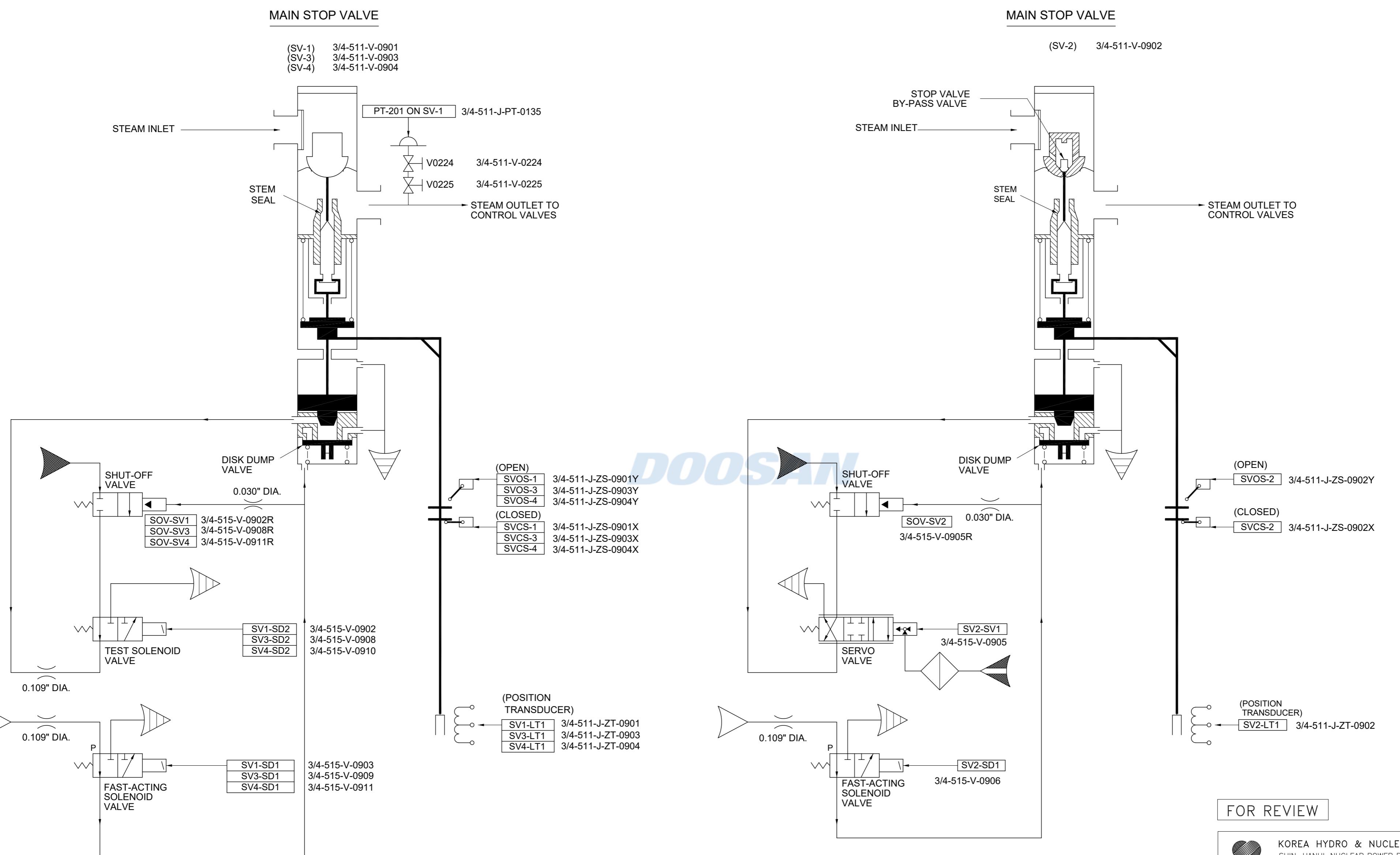
MAIN STOP VALVE

(SV-2) 3/4-511-V-0902

STOP VALVE BY-PASS VALVE



NQ



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REV.	DATE	DESCRIPTION	DRN	DGN	CK	RV	APP	JOB NO.	SAFETY CATEGORY	AREA CODE	SCALE	REV.
			11C64		N							A

FOR REVIEW

KOREA HYDRO & NUCLEAR POWER CO., LTD
SHIN-HANUL NUCLEAR POWER PLANT UNITS 3&4

DOOSAN Enerbility

TITLE
DIAGRAM OF HYDRAULIC SYSTEM

DOOSAN DWG NO 9-515-191-L-T-105-002 SHEET

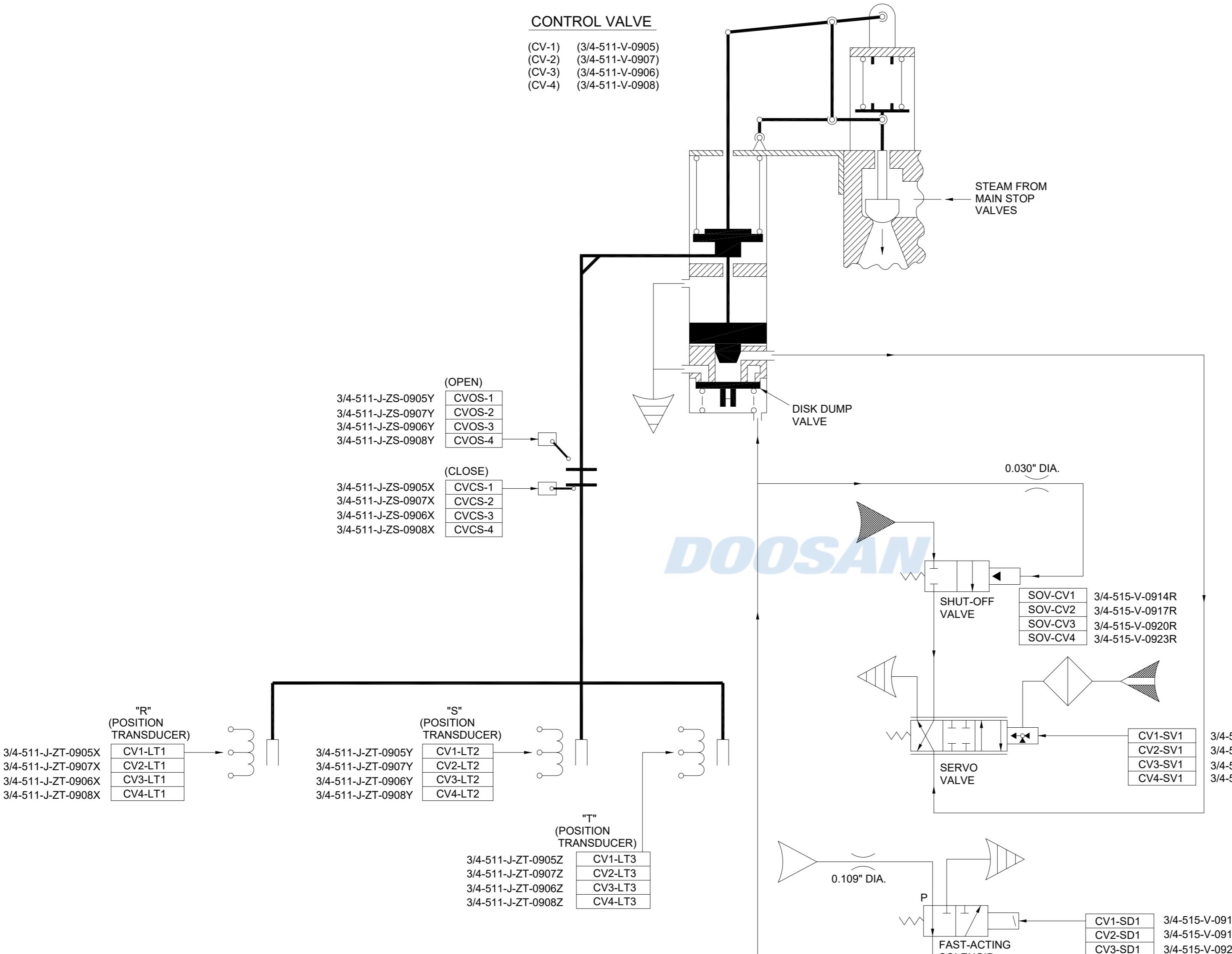
PROJECT DWG NO 9-515-191-L-T-105-002 5 OF 9

REV. A

9-515-19
V.G. NO.

NO.	DESCRIPTION	MATERIAL	Q'TY	SIZE, DWG. NO.	WT. (kg)		REMARK
					UNIT	TOTAL	

Q



KOREA HYDRO & NUCLEAR POWER CO. LTD

DOOSAN Enerbility

TITLE

DIAGRAM OF HYDRAULIC SYSTEM

SAN DWG NO 9-515-191-L-T-105-002 SHEET

ECT DWG NO 9-515-191-L-T-105-002 6 OF 9

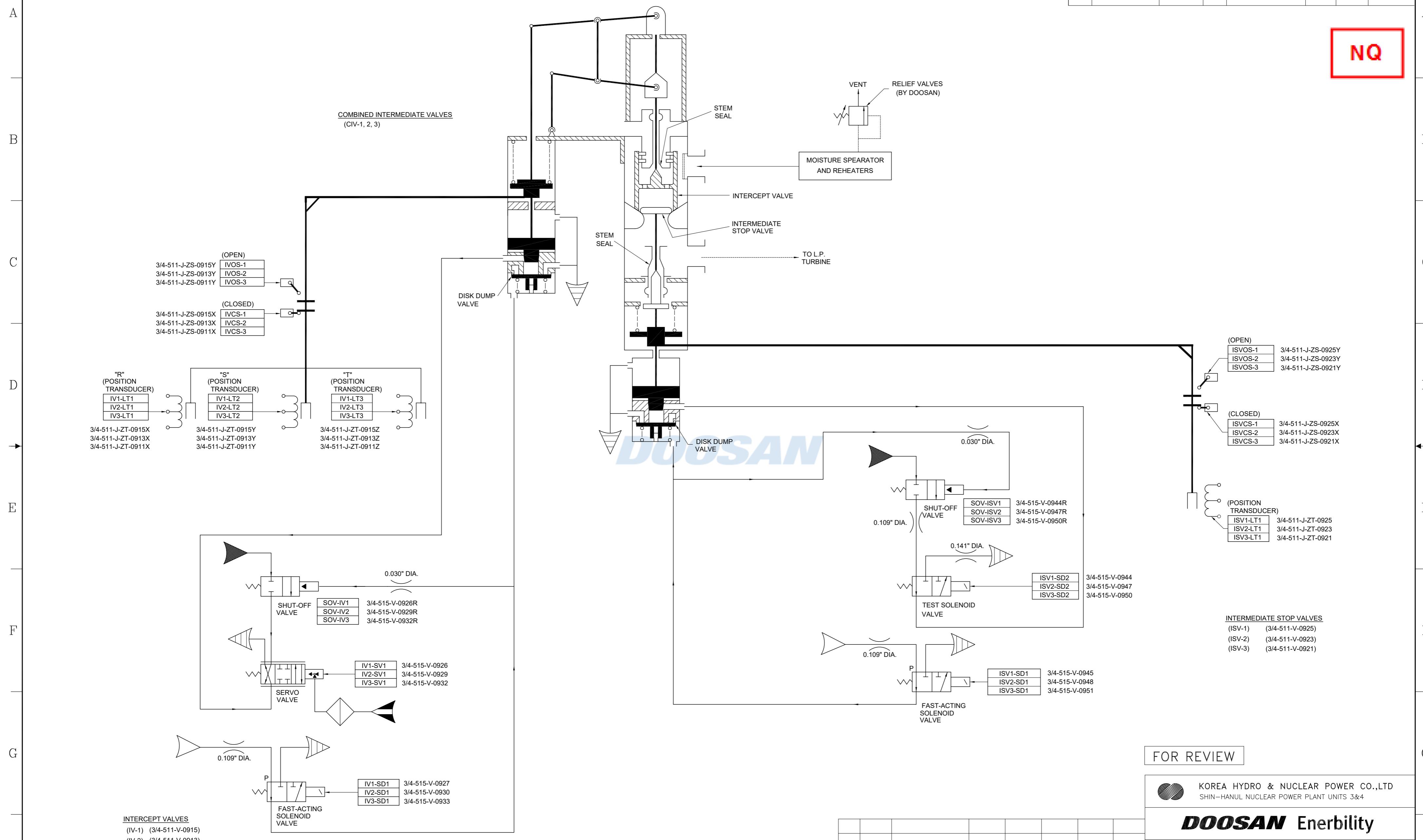
JOB NO.	CATEGORY	AREA CODE	SCALE	REV.
11C64	N		N/S	A

CONT. NO [REDACTED] - [REDACTED] - [REDACTED]

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두산 에너빌리티

DWG. NO. 9-515-191-L-T-105-002 (7/9)

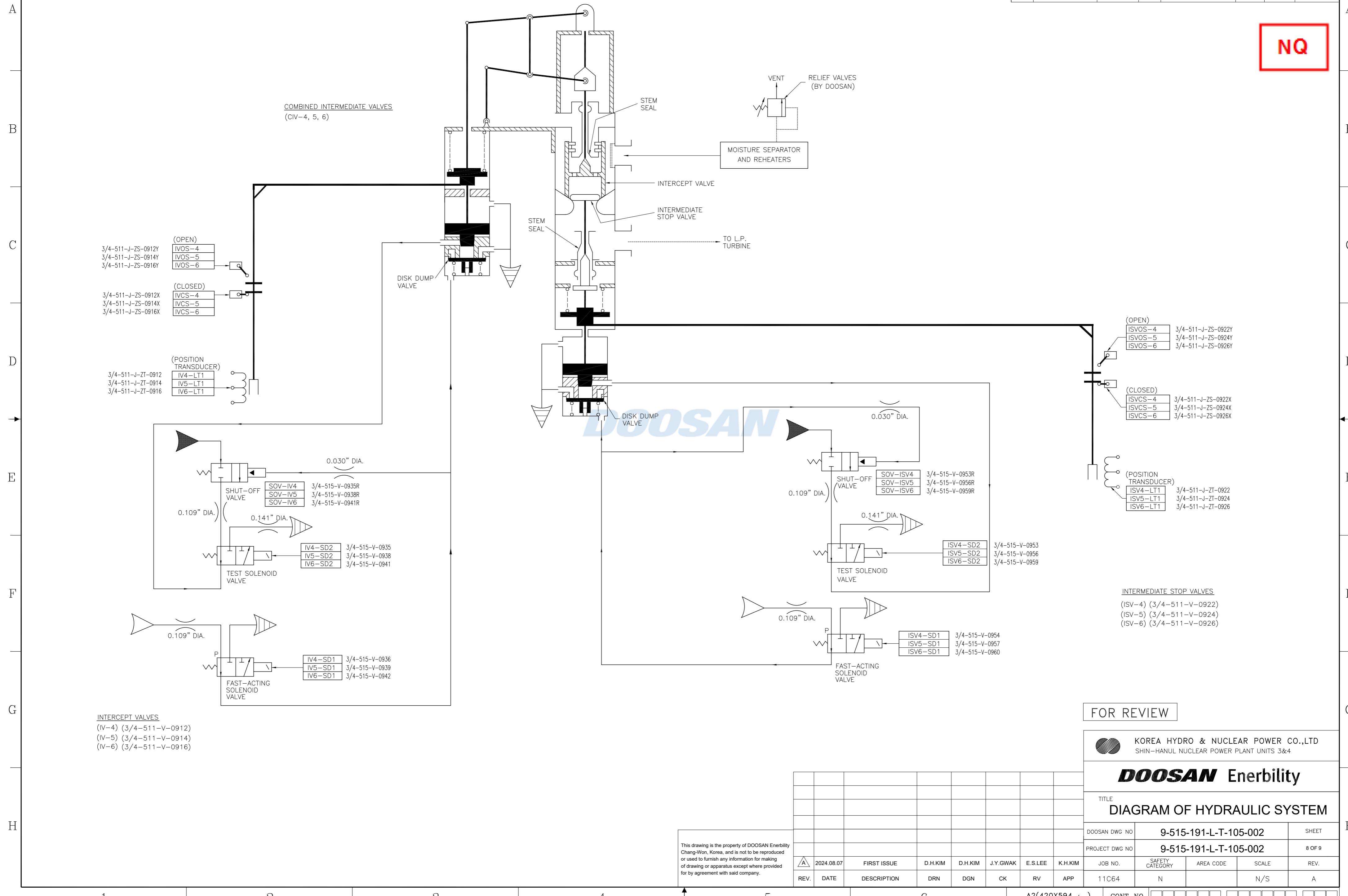


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REV.	DATE	FIRST ISSUE	D.H.KIM	D.H.KIM	J.Y.GWAK	E.S.LEE	K.H.KIM	JOB NO.	SAFETY CATEGORY	AREA CODE	SCALE	REV.
A	2024.08.07		DRN	DGN	CK	RV	APP	11C64	N		N/S	A

DWG. NO. 9-515-191-L-T-105-002 (8/9)
E&I No.

NO.	DESCRIPTION	MATERIAL	Q'TY	SIZE, DWG. NO.	WT. (kg)		REMARK
					UNIT	TOTAL	



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A	2024.08.07	FIRST ISSUE	D.H.KIM	D.H.KIM	J.Y.GWAK	E.S.LEE	K.H.KIM	JOB NO.	SAFETY CATEGORY	AREA CODE	SCALE	REV.
REV.	DATE	DESCRIPTION	DRN	DGN	CK	RV	APP	11C64	N		N/S	A

FOR REVIEW

KOREA HYDRO & NUCLEAR POWER CO., LTD
SHIN-HANUL NUCLEAR POWER PLANT UNITS 3&4

DOOSAN Enerbility

TITLE
DIAGRAM OF HYDRAULIC SYSTEM

DOOSAN DWG NO 9-515-191-L-T-105-002 SHEET

PROJECT DWG NO 9-515-191-L-T-105-002 8 OF 9

DWG. NO.	9-515-191-L-T-105-002 (9/9)
E&E NO.	

NO.	DESCRIPTION	MATERIAL	Q'TY	SIZE, DWG. NO.	WT. (kg)		REMARK
					UNIT	TOTAL	

NQ

INTERFACE POINT NAME	SHEET NO. DWG ZONE	FLUID TYPE	NORMAL PRESSURE PSIG (KG/CM2)	NORMAL TEMPERATURE °F (°C)	NORMAL FLOW GPM (LPM)	MAXIMUM PRESSURE PSIG (KG/CM2)	MAXIMUM TEMPERATURE °F (°C)	MAXIMUM FLOW GPM (LPM)	CONNECTION DESCRIPTION
HF001	SHT. 2 G-3	HYDRAULIC	0 (0)	115 (46.1)	5 (18.9)	200 (14.1)	150 (65.5)	588.5 (2227.7)	FLUID DRAIN
HF002	SHT. 2 G-3	HYDRAULIC	0 (0)	115 (46.1)	2.2 (8.3)	200 (14.1)	150 (65.5)	220 (832.8)	FLUID DRAIN
HF003	SHT. 2 G-3	HYDRAULIC	0 (0)	115 (46.1)	5 (18.9)	200 (14.1)	150 (65.5)	588.5 (2227.7)	FLUID DRAIN
HF004	SHT. 2 G-2	HYDRAULIC	1600 (112.5)	115 (46.1)	3.6 (13.6)	3000 (210.9)	150 (65.5)	380 (1438.5)	FLUID SUPPLY
HF005	SHT. 2 G-2	HYDRAULIC	1600 (112.5)	115 (46.1)	0.55 (2.1)	3000 (210.9)	150 (65.5)	19 (71.9)	FLUID SUPPLY
HF006	SHT. 2 G-2	HYDRAULIC	1600 (112.5)	115 (46.1)	3.6 (13.6)	3000 (210.9)	150 (65.5)	380 (1438.5)	FLUID SUPPLY
HF007	SHT. 2 G-2	HYDRAULIC	1600 (112.5)	115 (46.1)	3.6 (13.6)	3000 (210.9)	150 (65.5)	380 (1438.5)	FLUID SUPPLY
HF010	SHT. 2 G-2	HYDRAULIC	1600 (112.5)	115 (46.1)	0.5 (1.9)	3000 (210.9)	150 (65.5)	1 (3.8)	FLUID TRIP SUPPLY
HF011	SHT. 2 G-1	HYDRAULIC	0 (0)	115 (46.1)	0.5 (1.9)	200 (14.1)	150 (65.5)	1 (3.8)	TRIP SYSTEM DRAIN
HF012	SHT. 2 G-1	HYDRAULIC	0 (0)	115 (46.1)	0 (0)	200 (14.1)	150 (65.5)	0.1 (0.4)	TRIP SYSTEM VENT
HF013	SHT. 3 G-4	HYDRAULIC	0 (0)	115 (46.1)	0 (0)	3000 (210.9)	150 (65.5)	1 (3.8)	FLUID RESERVOIR FILL
HF014	SHT. 3 G-2	HYDRAULIC	0 (0)	115 (46.1)	0 (0)	3000 (210.9)	150 (65.5)	1 (3.8)	FLUID RESERVOIR DRAIN
HF040	SHT. 2 F-2	HYDRAULIC	1600 (112.5)	115 (46.1)	0.5 (1.9)	3000 (210.9)	150 (65.5)	1 (3.8)	FLUID TRIP SUPPLY
HF041	SHT. 2 F-2	HYDRAULIC	0 (0)	115 (46.1)	0.5 (1.9)	200 (14.1)	150 (65.5)	1 (3.8)	TRIP SYSTEM DRAIN
HF042	SHT. 2 B-1	HYDRAULIC	0 (0)	115 (46.1)	0 (0)	200 (14.1)	150 (65.5)	0.1 (0.4)	TRIP SYSTEM VENT
HF043	SHT. 2 E-2	HYDRAULIC	1600 (112.5)	115 (46.1)	0.62 (2.3)	3000 (210.9)	150 (65.5)	9.12 (34.5)	EMERGENCY TRIP SUPPLY
HF044	SHT. 2 B-1	AIR	60 (4.2)	70.2 (21.1)	0.01 (0)	125 (8.8)	150 (65.5)	1 SCFM	AIR RELAY DUMP SUPPLY
HF045	SHT. 2 B-1	AIR	60 (4.2)	70.2 (21.1)	0.01 (0)	125 (8.8)	150 (65.5)	1 SCFM	AIR RELAY DUMP SUPPLY
HF046	SHT. 2 B-1	AIR	60 (4.2)	70.2 (21.1)	0.01 (0)	125 (8.8)	150 (65.5)	1 SCFM	EMERGENCY TRIP AIR SUPPLY
HF047	SHT. 2 B-1	AIR	60 (4.2)	70.2 (21.1)	0.01 (0)	125 (8.8)	150 (65.5)	1 SCFM	EMERGENCY TRIP AIR SUPPLY
HF050	SHT. 2 C-3	HYDRAULIC	1600 (112.5)	115 (46.1)	0.2 (0.8)	3000 (210.9)	150 (65.5)	3 (11.4)	EMERGENCY TRIP SUPPLY
HF051	SHT. 2 C-3	HYDRAULIC	0 (0)	115 (46.1)	0.4 (1.5)	200 (14.1)	150 (65.5)	55 (208.2)	FLUID DRAIN
HF052	SHT. 2 C-3	HYDRAULIC	1600 (112.5)	115 (46.1)	0.2 (0.8)	3000 (210.9)	150 (65.5)	9.5 (36)	FLUID SUPPLY
HF053	SHT. 2 D-3	HYDRAULIC	1600 (112.5)	115 (46.1)	0.2 (0.8)	3000 (210.9)	150 (65.5)	3 (11.4)	EMERGENCY TRIP SUPPLY
HF054	SHT. 2 D-3	HYDRAULIC	0 (0)	115 (46.1)	0.4 (1.5)	200 (14.1)	150 (65.5)	55 (208.2)	FLUID DRAIN
HF055	SHT. 2 D-3	HYDRAULIC	1600 (112.5)	115 (46.1)	0.2 (0.8)	3000 (210.9)	150 (65.5)	9.5 (36)	FLUID SUPPLY
HF056	SHT. 2 E-3	HYDRAULIC	1600 (112.5)	115 (46.1)	0.2 (0.8)	3000 (210.9)	150 (65.5)	3 (11.4)	EMERGENCY TRIP SUPPLY
HF057	SHT. 2 E-3	HYDRAULIC	0 (0)	115 (46.1)	0.4 (1.5)	200 (14.1)	150 (65.5)	55 (208.2)	FLUID DRAIN
HF058	SHT. 2 E-3	HYDRAULIC	1600 (112.5)	115 (46.1)	0.2 (0.8)	3000 (210.9)	150 (65.5)	9.5 (36)	FLUID SUPPLY
HF059	SHT. 2 F-3	HYDRAULIC	1600 (112.5)	115 (46.1)	0.2 (0.8)	3000 (210.9)	150 (65.5)	3 (11.4)	EMERGENCY TRIP SUPPLY
HF060	SHT. 2 F-3	HYDRAULIC	0 (0)	115 (46.1)	0.4 (1.5)	200 (14.1)	150 (65.5)	55 (208.2)	FLUID DRAIN
HF061	SHT. 2 F-3	HYDRAULIC	1600 (112.5)	115 (46.1)	0.2 (0.8)	3000 (210.9)	150 (65.5)	9.5 (36)	FLUID SUPPLY
HF080	SHT. 2 B-4	HYDRAULIC	1600 (112.5)	115 (46.1)	0.01 (0)	3000 (210.9)	150 (65.5)	0.02 (0.1)	EMERGENCY TRIP SUPPLY
HF081	SHT. 2 B-4	HYDRAULIC	0 (0)	115 (46.1)	0.7 (2.6)	200 (14.1)	150 (65.5)	95.5 (361.5)	FLUID DRAIN
HF082	SHT. 2 B-4	HYDRAULIC	1600 (112.5)	115 (46.1)	0.9 (3.4)	3000 (210.9)	150 (65.5)	95 (359.6)	FLUID SUPPLY
HF090	SHT. 2 C-4	HYDRAULIC	1600 (112.5)	115 (46.1)	0.01 (0)	3000 (210.9)	150 (65.5)	0.02 (0.1)	EMERGENCY TRIP SUPPLY
HF091	SHT. 2 C-4	HYDRAULIC	0 (0)	115 (46.1)	0.7 (2.6)	200 (14.1)	150 (65.5)	95.5 (361.5)	FLUID DRAIN
HF092	SHT. 2 C-4	HYDRAULIC	1600 (112.5)	115 (46.1)	0.9 (3.4)	3000 (210.9)	150 (65.5)	95 (359.6)	FLUID SUPPLY
HF100	SHT. 2 D-4	HYDRAULIC	1600 (112.5)	115 (46.1)	0.01 (0)	3000 (210.9)	150 (65.5)	0.02 (0.1)	EMERGENCY TRIP SUPPLY
HF101	SHT. 2 D-4	HYDRAULIC	0 (0)	115 (46.1)	0.7 (2.6)	200 (14.1)	150 (65.5)	95.5 (361.5)	FLUID DRAIN
HF102	SHT. 2 D-4	HYDRAULIC	1600 (112.5)	115 (46.1)	0.9 (3.4)	3000 (210.9)	150 (65.5)	95 (359.6)	FLUID SUPPLY
HF110	SHT. 2 E-4	HYDRAULIC	1600 (112.5)	115 (46.1)	0.01 (0)	3000 (210.9)	150 (65.5)	0.02 (0.1)	EMERGENCY TRIP SUPPLY
HF111	SHT. 2 E-4	HYDRAULIC	0 (0)	115 (46.1)	0.7 (2.6)	200 (14.1)	150 (65.5)	95.5 (361.5)	FLUID DRAIN
HF112	SHT. 2 E-4	HYDRAULIC	1600 (112.5)	115 (46.1)	0.9 (3.4)	3000 (210.9)	150 (65.5)	95 (359.6)	FLUID SUPPLY
HF130	SHT. 2 B-7	HYDRAULIC	1600 (112.5)	115 (46.1)	0.01 (0)	3000 (210.9)	150 (65.5)	3 (11.4)	EMERGENCY TRIP SUPPLY
HF131	SHT. 2 B-7	HYDRAULIC	0 (0)	115 (46.1)	0.4 (1.5)	200 (14.1)	150 (65.5)	55 (208.2)	FLUID DRAIN
HF132	SHT. 2 B-7	HYDRAULIC	1600 (112.5)	115 (46.1)	0.39 (1.5)	3000 (210.9)	150 (65.5)	9.5 (36)	FLUID SUPPLY
HF140	SHT. 2 B-6	HYDRAULIC	1600 (112.5)	115 (46.1)	0.01 (0)	3000 (210.9)	150 (65.5)	3 (11.4)	EMERGENCY TRIP SUPPLY
HF141	SHT. 2 B-6	HYDRAULIC	0 (0)	115 (46.1)	0.4 (1.5)	200 (14.1)	150 (65.5)	55 (208.2)	FLUID DRAIN
HF142	SHT. 2 B-6	HYDRAULIC	1600 (112.5)	115 (46.1)	0.39 (1.5)	3000 (210.9)	150 (65.5)	9.5 (36)	FLUID SUPPLY
HF150	SHT. 2 B-5	HYDRAULIC	1600 (112.5)	115 (46.1)	0.01 (0)	3000 (210.9)	150 (65.5)	3 (11.4)	EMERGENCY TRIP SUPPLY
HF151	SHT. 2 B-5	HYDRAULIC	0 (0)	115 (46.1)	0.4 (1.5)	200 (14.1)	150 (65.5)	55 (208.2)	FLUID DRAIN
HF152	SHT. 2 B-5	HYDRAULIC	1600 (112.5)	115 (46.1)	0.39 (1.5)	3000 (210.9)	150 (65.5)	9.5 (36)	FLUID SUPPLY
HF160</									