

공주 천연가스 발전소 주기기 및 부속설비 구매

CONTRACT NO. : 제 P-GJ01-23M01-01호

ITEM : ECMS

DOC. TITLE : SCHEMATIC DIAGRAM  
MAIN XFMR & UNIT DIFF.  
PROT'N PANEL FOR GTG

DOCUMENT REVIEW STATUS.

		FILE NO. :	
KOREA DISTRICT HEATING ENGINEERING CO., LTD.			
DOCUMENT STATUS.			
1. <input type="checkbox"/> WORK MAY PROCEED. CONTRACTOR MAY PROCEED WITH FABRICATION OR CONSTRUCTION IN ACCORDANCE WITH SPECIFICATION. 2. <input type="checkbox"/> REVISE AND RESUBMIT. CONTRACTOR MAY PROCEED IN ACCORDANCE WITH SPECIFICATION BASED ON MAKING REVISIONS AS NOTED AND RESUBMIT. 3. <input type="checkbox"/> REVISE AND RESUBMIT (WORK MAY NOT PROCEED). REVISE AS NOTED AND RESUBMIT. HOLD FABRICATION / CONSTRUCTION. 4. <input type="checkbox"/> FOR INFORMATION ONLY. 5. <input type="checkbox"/> RESUBMIT. NOT ACCEPTABLE FOR MICROFILM OR REPRODUCTIONS. OTHERWISE CONSIDERED STATUS 1 AND WORK MAY PROCEED.			
Note : Permission to proceed does not constitute acceptance or approval of design data, calculation, analysis, test methods or materials developed or selected by the supplier and does not relieve supplier from full compliance with contractual obligations			
REVIEW		DATE 20 . . .	
RE			

A	2025.05.23	승인용	현진호	박준혁	장우철	유영식
REV.	DATE	DESCRIPTION	DGN	CHK	CHK	APPR



GE VERNOVA

**DAEWOO E&C**

MULTI NO.				PROJECT NO.	KOWEPO DOCUMENT NO.	TYPE	REV.
				1GJCC	9-41900-BE-144-001	-	A

SCHEMATIC DIAGRAM  
MAIN XFMR & UNIT DIFF. PROT'N PANEL  
FOR GTG  
(1GJCC1-41900-E-RL-01)

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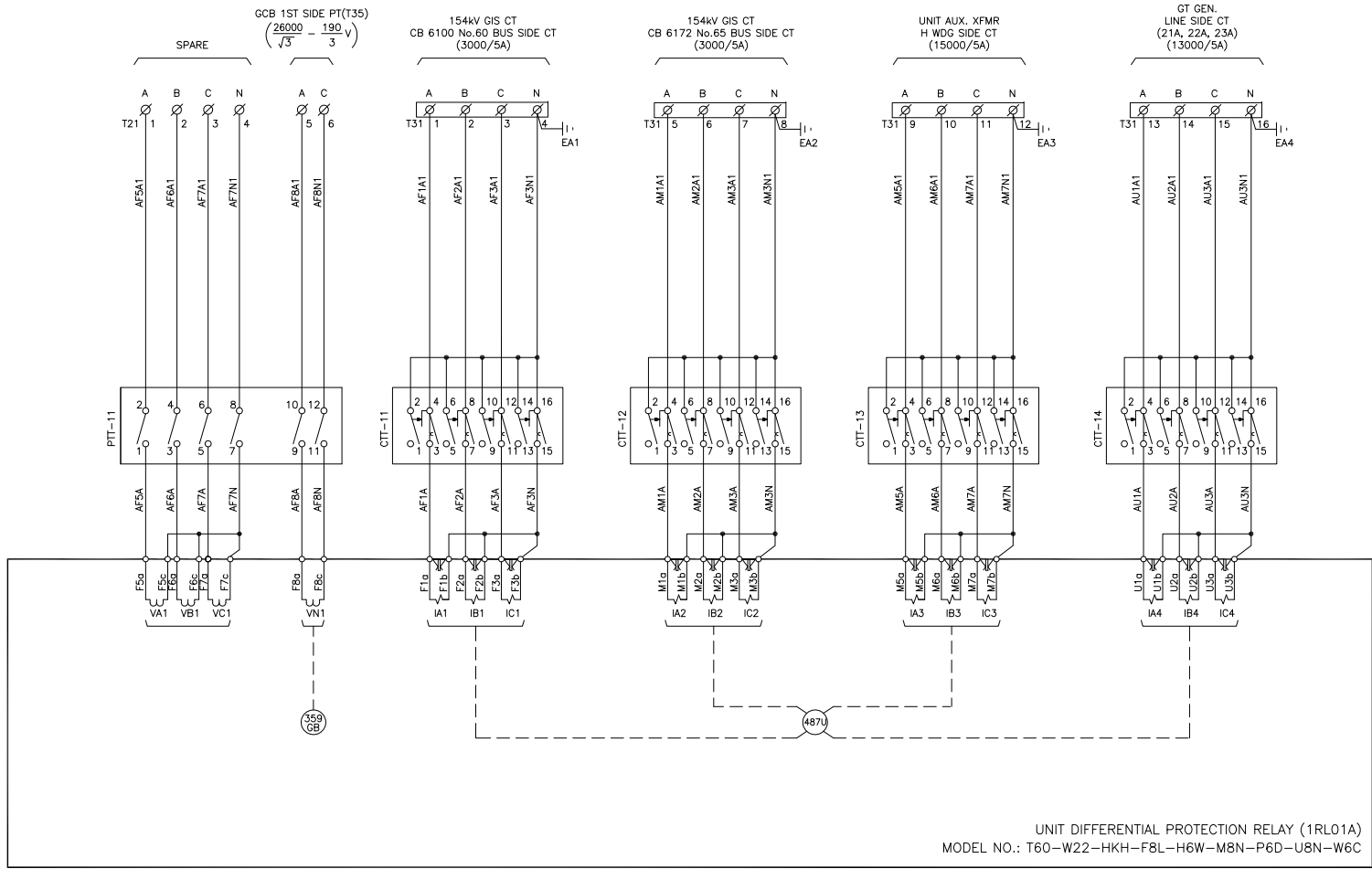
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NOTES

1. FOR SYMBOLS & LEGENDS, REFER TO DWG. 1GJCC9-41900-BE-140-001(GJ-SL-001-01, 02)

2. WIRE

DESCRIPTION	TYPE	SIZE	COLOR
CT 2'ND CIRCUIT	XHHW/SIS	6SQ	GREEN
PT 2'ND CIRCUIT	XHHW/SIS	4SQ	RED
AC/DC CIRCUIT(POWER)	XHHW/SIS	2.5SQ	BLACK
DC CIRCUIT(CONTROL)	XHHW/SIS	2.5SQ	BLUE
AC CIRCUIT(CONTROL)	XHHW/SIS	2.5SQ	YELLOW
GROUND	XHHW/SIS	6SQ	BLACK
ANALOG I/O	SHIELDED	0.8SQ	GRAY

3. TERMINAL BLOCK

DESCRIPTION	TYPE	RATING
CT TERMINAL	ASSEMBLY TYPE(W/SHORT BAR)	30A
PT TERMINAL	ASSEMBLY TYPE	35A
DC CIRCUIT	ASSEMBLY TYPE	25A
AC/DC INCOMING	ASSEMBLY TYPE	35A

FOR APPROVAL

△						
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△	2025.05.23	FOR APPROVAL	J.H.HYUN	J.H.PARK	W.C.JANG	Y.S.YOU
REV.	DATE	DESCRIPTION	PREPARED	CHECKED	REVIEWED	APPROVED
OWNER						
KWP KOREA WESTERN POWER CO., Ltd. 공주 천연가스 발전소(500MW x 1)						
OE						
KDHEC 한국지력난방기술(주) ANKUG ENGINEERING						
CONTRACTOR						
GE VERNOVA DAEWOO E&C						
SUPPLIER						
YPP CORPORATION						
TITLE		SCHEMATIC DIAGRAM MAIN XFMR & UNIT DIFF. PROT'N PANEL FOR GTG THREE LINE (1/2)				
PROJECT DRAWING NUMBER		GJ-SC-001-01		SCALE	SHEET	
				NONE	1/1	
MULTI UNIT		PROJECT	OWNER'S NUMBER		C/F NO.	REV.
		1GJCC	9-41900-BE-144-001			A

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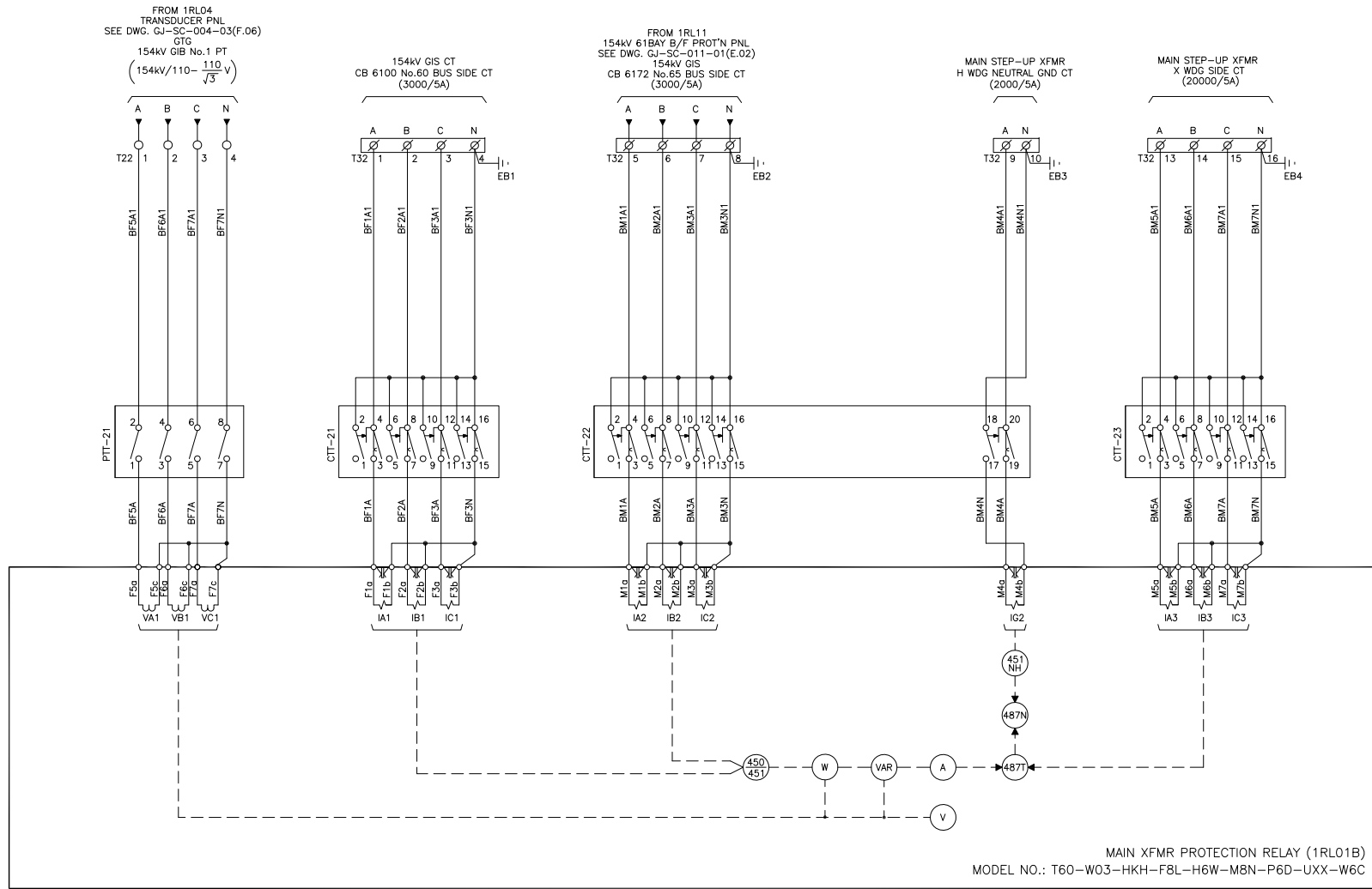
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## NOTES

1. FOR SYMBOLS & LEGENDS, REFER TO  
DWG. 1GJCC9-41900-BE-140-001(GJ-SL-001-01, 02)

## 2. WIRE

DESCRIPTION	TYPE	SIZE	COLOR
CT 2'ND CIRCUIT	XHHW/SIS	6SQ	GREEN
PT 2'ND CIRCUIT	XHHW/SIS	4SQ	RED
AC/DC CIRCUIT(POWER)	XHHW/SIS	2.5SQ	BLACK
DC CIRCUIT(CONTROL)	XHHW/SIS	2.5SQ	BLUE
AC CIRCUIT(CONTROL)	XHHW/SIS	2.5SQ	YELLOW
GROUND	XHHW/SIS	6SQ	BLACK
ANALOG I/O	SHIELDED	0.8SQ	GRAY

## 3. TERMINAL BLOCK

DESCRIPTION	TYPE	RATING
CT TERMINAL	ASSEMBLY TYPE(W/SHORT BAR)	30A
PT TERMINAL	ASSEMBLY TYPE	35A
DC CIRCUIT	ASSEMBLY TYPE	25A
AC/DC INCOMING	ASSEMBLY TYPE	35A

## FOR APPROVAL

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△ A	2025.05.23	FOR APPROVAL	J.H.HYUN	J.H.PARK	W.C.JANG	Y.S.YOU
REV.	DATE	DESCRIPTION	PREPARED	CHECKED	REVIEWED	APPROVED
OWNER						
KWP KOREA WESTERN POWER CO., Ltd. 공주 천연가스 발전소(500MW x 1)						
OE						
KDHEC 한국지역난방공사(주) www.kdhec.co.kr						
ANKUG ENGINEERING www.ankugeng.com						
CONTRACTOR						
GE VERNOVA DAEWOO E&C						
SUPPLIER						
YPP CORPORATION						
TITLE						
SCHEMATIC DIAGRAM MAIN XFMR & UNIT DIFF. PROT'N PANEL FOR GTG THREE LINE (2/2)						
PROJECT DRAWING NUMBER		GJ-SC-001-02		SCALE	SHEET	
				NONE	1/1	
MULTI UNIT	PROJECT	OWNER'S NUMBER		C/F NO.	REV.	
	1GJCC	9-41900-BE-144-001			A	

A3 (297 x 420 MM)

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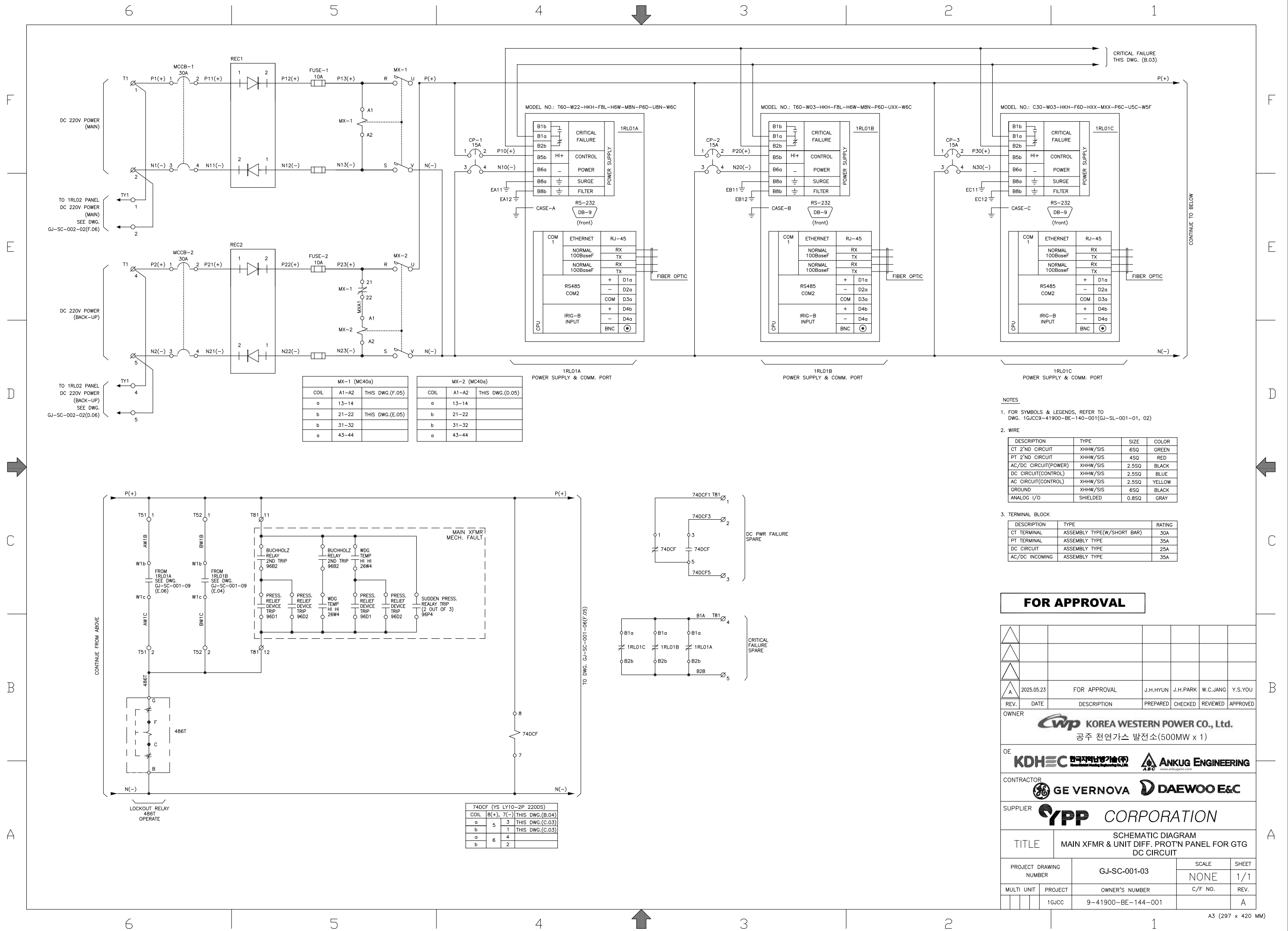
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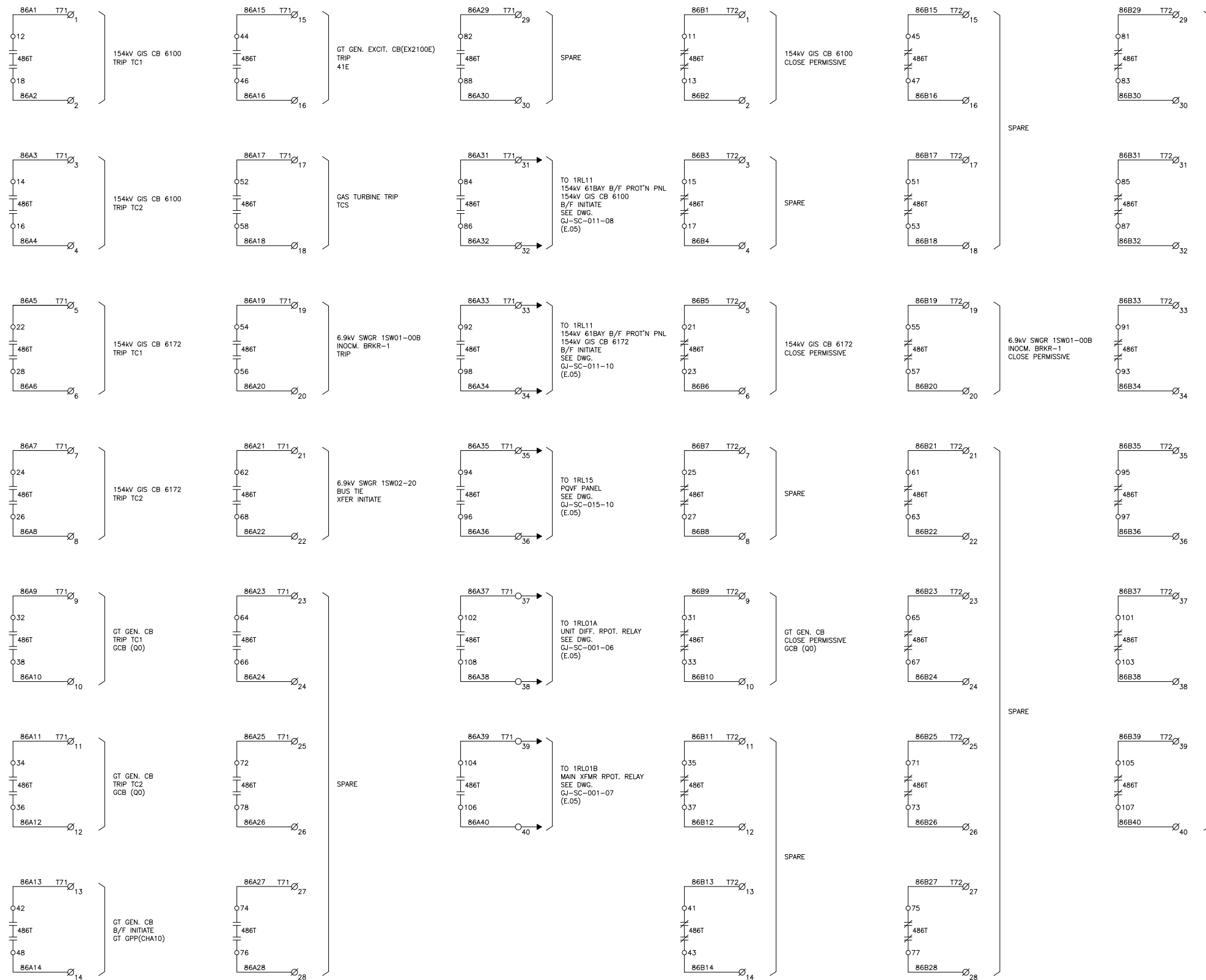
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## 486T TRIP/RESET CONTACT ARRANGEMENT



## NOTES

1. FOR SYMBOLS & LEGENDS, REFER TO DWG. 1GJCC9-41900-BE-140-001 (GJ-SL-001-01, 02)

## 2. WIRE

DESCRIPTION	TYPE	SIZE	COLOR
CT 2'ND CIRCUIT	XHHW/SIS	6SQ	GREEN
PT 2'ND CIRCUIT	XHHW/SIS	4SQ	RED
AC/DC CIRCUIT(POWER)	XHHW/SIS	2.5SQ	BLACK
DC CIRCUIT(CONTROL)	XHHW/SIS	2.5SQ	BLUE
AC CIRCUIT(CONTROL)	XHHW/SIS	2.5SQ	YELLOW
GROUND	XHHW/SIS	6SQ	BLACK
ANALOG I/O	SHIELDED	0.8SQ	GRAY

## 3. TERMINAL BLOCK

DESCRIPTION	TYPE	RATING
CT TERMINAL	ASSEMBLY TYPE(W/SHORT BAR)	30A
PT TERMINAL	ASSEMBLY TYPE	35A
DC CIRCUIT	ASSEMBLY TYPE	25A
AC/DC INCOMING	ASSEMBLY TYPE	35A

## FOR APPROVAL

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△	2025.05.23	FOR APPROVAL	J.H.HYUN	J.H.PARK	W.C.JANG	Y.S.YOU
REV.	DATE	DESCRIPTION	PREPARED	CHECKED	REVIEWED	APPROVED

OWNER  
**CWP** KOREA WESTERN POWER CO., Ltd.  
공주 천연가스 발전소(500MW x 1)

OE  
**KDHEC** 한국지력난방기술(주) **ANKUG ENGINEERING**  
www.kdhec.com www.ankugeng.com

CONTRACTOR  
**GE VERNOVA** **DAEWOO E&C**

SUPPLIER  
**YPP CORPORATION**

TITLE  
SCHEMATIC DIAGRAM  
MAIN XFMR & UNIT DIFF. PROT'N PANEL FOR GTG  
LOR(486T) TRIP/RESET CONTACT

PROJECT DRAWING NUMBER	GJ-SC-001-04	SCALE	SHEET
		NONE	1/1
MULTI UNIT	PROJECT	OWNER'S NUMBER	C/F NO. REV.
	1GJCC	9-41900-BE-144-001	A

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CONTACT ARRANGEMENT OF 486T

DESK	CONTACTS	POSITION		LOCK OUT RELAY CONTACT ASSIGNMENT	LOCATION DWG.
		TRIP	RESET		
1	11 13		X	154kV GIS CB 6100 CLOSE PERMISSIVE	GJ-SC-001-04
	12 18	X		154kV GIS CB 6100 TRIP TC1	GJ-SC-001-04
	15 17		X	SPARE	GJ-SC-001-04
	14 16	X		154kV GIS CB 6100 TRIP TC2	GJ-SC-001-04
	21 23		X	154kV GIS CB 6172 CLOSE PERMISSIVE	GJ-SC-001-04
2	22 28	X		154kV GIS CB 6172 TRIP TC1	GJ-SC-001-04
	25 27		X	SPARE	GJ-SC-001-04
	24 26	X		154kV GIS CB 6172 TRIP TC2	GJ-SC-001-04
	31 33		X	GT GEN. CB CLOSE PERMISSIVE GCB (Q0)	GJ-SC-001-04
	32 38	X		GT GEN. CB TRIP TC1 GCB (Q0)	GJ-SC-001-04
3	35 37		X	SPARE	GJ-SC-001-04
	34 36	X		GT GEN. CB TRIP TC2 GCB (Q0)	GJ-SC-001-04
	41 43		X	SPARE	GJ-SC-001-04
	42 48	X		GT GEN. CB B/F INITIATE GT GPP(CHA10)	GJ-SC-001-04
	45 47		X	SPARE	GJ-SC-001-04
4	44 46	X		GT GEN. EXCIT. CB(EX2100E) TRIP 41E	GJ-SC-001-04
	51 53		X	SPARE	GJ-SC-001-04
	52 58	X		GAS TURBINE TRIP TCS	GJ-SC-001-04
	55 57		X	6.9kV SWGR 1SW01-00B INOCM. BRKR-1 CLOSE PERMISSIVE	GJ-SC-001-04
	54 56	X		6.9kV SWGR 1SW01-00B INOCM. BRKR-1 TRIP	GJ-SC-001-04
5	61 63		X	SPARE	GJ-SC-001-04
	62 68	X		6.9kV SWGR 1SW02-20 BUS TIE XFER INITIATE	GJ-SC-001-04
	65 67		X	SPARE	GJ-SC-001-04
	64 66	X		SPARE	GJ-SC-001-04
	71 73		X	SPARE	GJ-SC-001-04
6	72 78	X		SPARE	GJ-SC-001-04
	75 77		X	SPARE	GJ-SC-001-04
	74 76	X		SPARE	GJ-SC-001-04
	81 83		X	SPARE	GJ-SC-001-04
	82 88	X		SPARE	GJ-SC-001-04
7	85 87		X	SPARE	GJ-SC-001-04
	84 86	X		TO 1RL11 154kV 61BAY B/F PROT'N PNL 154kV GIS 6100 CB B/F INITIATE	GJ-SC-001-04
	91 93		X	SPARE	GJ-SC-001-04
	92 98	X		TO 1RL11 154kV 61BAY B/F PROT'N PNL 154kV GIS 6172 CB B/F INITIATE	GJ-SC-001-04
	95 97		X	SPARE	GJ-SC-001-04
8	94 96	X		TO 1RL15 PQVF PANEL	GJ-SC-001-04
	101 103		X	SPARE	GJ-SC-001-04
	102 108	X		TO 1RL01A UNIT DIFF. PROT. RELAY	GJ-SC-001-04
	105 107		X	SPARE	GJ-SC-001-04
	104 106	X		TO 1RL01B MAIN XFMR RPOT. RELAY	GJ-SC-001-04

NOTES

1. FOR SYMBOLS & LEGENDS, REFER TO DWG. 1GJCC9-41900-BE-140-001(GJ-SL-001-01, 02)

2. WIRE

DESCRIPTION	TYPE	SIZE	COLOR
CT 2'ND CIRCUIT	XHHW/SIS	6SQ	GREEN
PT 2'ND CIRCUIT	XHHW/SIS	4SQ	RED
AC/DC CIRCUIT(POWER)	XHHW/SIS	2.5SQ	BLACK
DC CIRCUIT(CONTROL)	XHHW/SIS	2.5SQ	BLUE
AC CIRCUIT(CONTROL)	XHHW/SIS	2.5SQ	YELLOW
GROUND	XHHW/SIS	6SQ	BLACK
ANALOG I/O	SHIELDED	0.8SQ	GRAY

3. TERMINAL BLOCK

DESCRIPTION	TYPE	RATING
CT TERMINAL	ASSEMBLY TYPE(W/SHORT BAR)	30A
PT TERMINAL	ASSEMBLY TYPE	35A
DC CIRCUIT	ASSEMBLY TYPE	25A
AC/DC INCOMING	ASSEMBLY TYPE	35A

FOR APPROVAL

	2025.05.23	FOR APPROVAL	J.H.HYUN	J.H.PARK	W.C.JANG	Y.S.YOU
REV.	DATE	DESCRIPTION	PREPARED	CHECKED	REVIEWED	APPROVED
OWNER  KOREA WESTERN POWER CO., Ltd. 공주 천연가스 발전소(500MW x 1)						
OE  한국지역난방공사(KDHEC)  ANKUG ENGINEERING						
CONTRACTOR  GE VERNOVA  DAEWOO E&C						
SUPPLIER  YPP CORPORATION						
TITLE	SCHEMATIC DIAGRAM MAIN XFMR & UNIT DIFF. PROT'N PANEL FOR GTG CONTACT ARRANGEMENT					
PROJECT DRAWING NUMBER		GJ-SC-001-05		SCALE	SHEET	
				NONE	1/1	
MULTI UNIT	PROJECT	OWNER'S NUMBER		C/F NO.	REV.	
	1GJCC	9-41900-BE-144-001			A	

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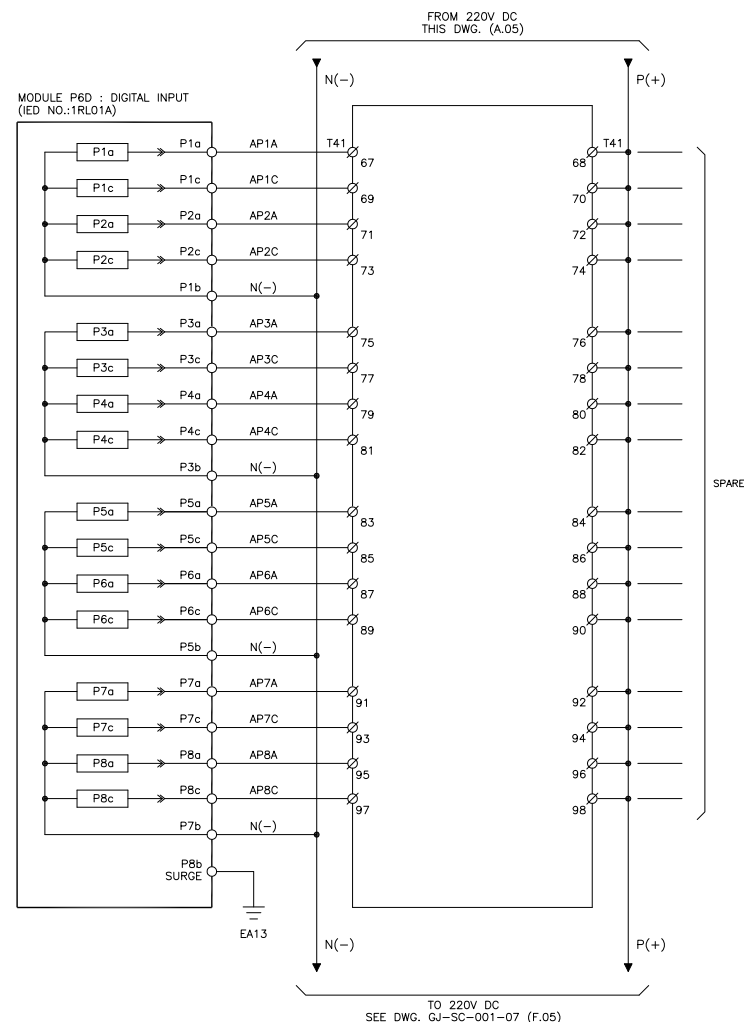
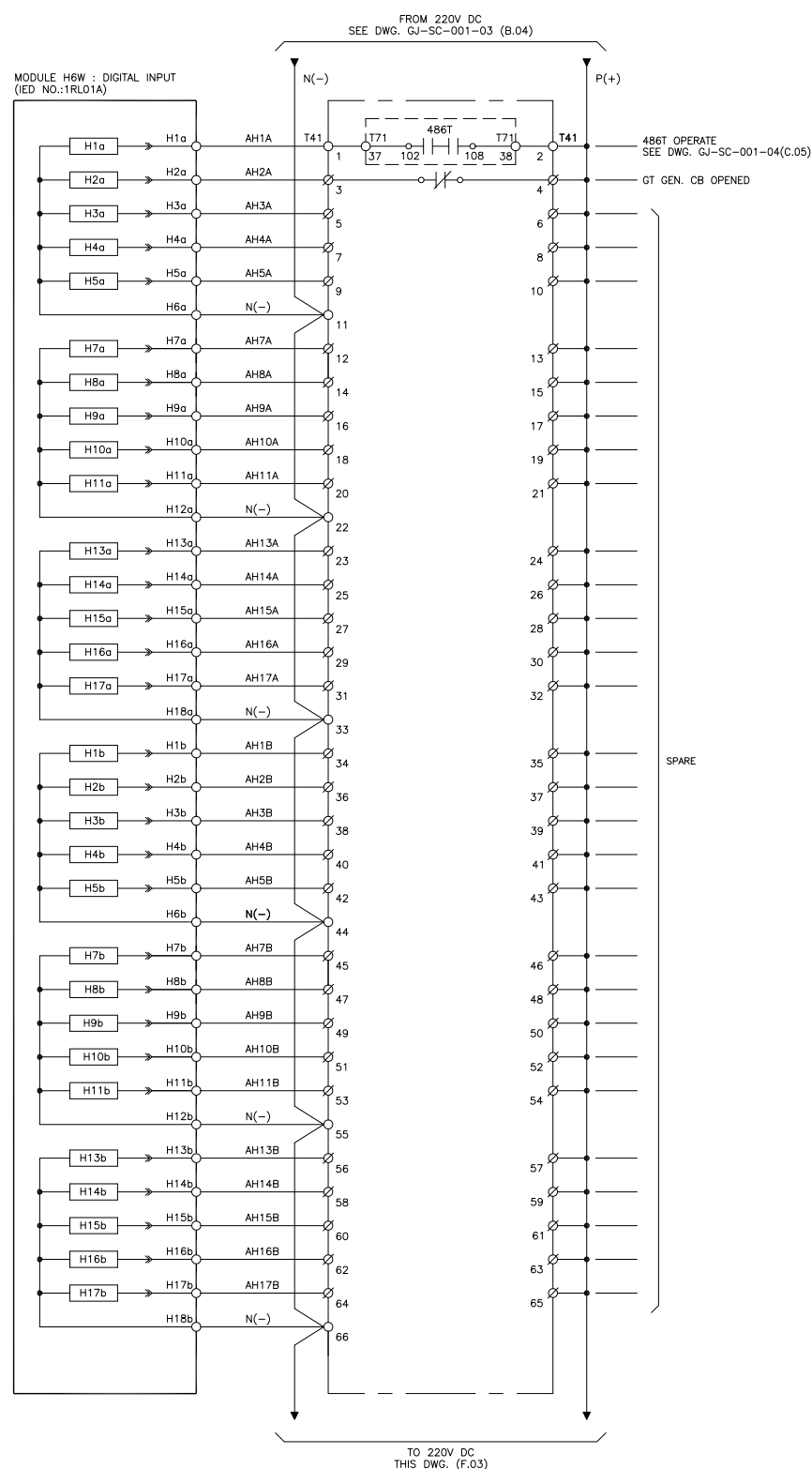
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#### NOTES

1. FOR SYMBOLS & LEGENDS, REFER TO  
DWG. 1GJCC9-41900-BE-140-001(GJ-SL-001-01, 02)











2. WIRE

DESCRIPTION	TYPE	SIZE	COLOR
CT 2'ND CIRCUIT	XHHW/SIS	6SQ	GREEN
PT 2'ND CIRCUIT	XHHW/SIS	4SQ	RED
AC/DC CIRCUIT(POWER)	XHHW/SIS	2.5SQ	BLACK
DC CIRCUIT(CONTROL)	XHHW/SIS	2.5SQ	BLUE
AC CIRCUIT(CONTROL)	XHHW/SIS	2.5SQ	YELLOW
GROUND	XHHW/SIS	6SQ	BLACK
ANALOG I/O	SHIELDED	0.8SQ	GRAY

3. TERMINAL BLOCK

DESCRIPTION	TYPE	RATING
CT TERMINAL	ASSEMBLY TYPE(W/SHORT BAR)	30A
PT TERMINAL	ASSEMBLY TYPE	35A
DC CIRCUIT	ASSEMBLY TYPE	25A
AC/DC INCOMING	ASSEMBLY TYPE	35A

#### FOR APPROVAL

						
						
						
	2025.05.23	FOR APPROVAL	J.H.HYUN	J.H.PARK	W.C.JANG	Y.S.YO
REV.	DATE	DESCRIPTION	PREPARED	CHECKED	REVIEWED	APPROV
OWNER						
 KOREA WESTERN POWER CO., Ltd. 공주 천연가스 발전소(500MW x 1)						
OE						
 한국지역난방공사(주) <small>Korea Center Heating Engineering Co., Ltd.</small>  ANKUG ENGINEERING <small>www.ankugengineer.com</small>						
CONTRACTOR						
 GE VERNOVA  DAEWOO E&C						
SUPPLIER						
 CORPORATION						
TITLE		SCHEMATIC DIAGRAM MAIN XFMR & UNIT DIFF. PROT'N PANEL FOR GTG DIGITAL INPUT CIRCUIT (IED NO.: 1RL01A)				
PROJECT DRAWING NUMBER		GJ-SC-001-06			SCALE	SHEET
					NONE	1/
MULTI UNIT	PROJECT	OWNER'S NUMBER			C/F NO.	REV.
	1GJCC	9-41900-BE-144-001				A



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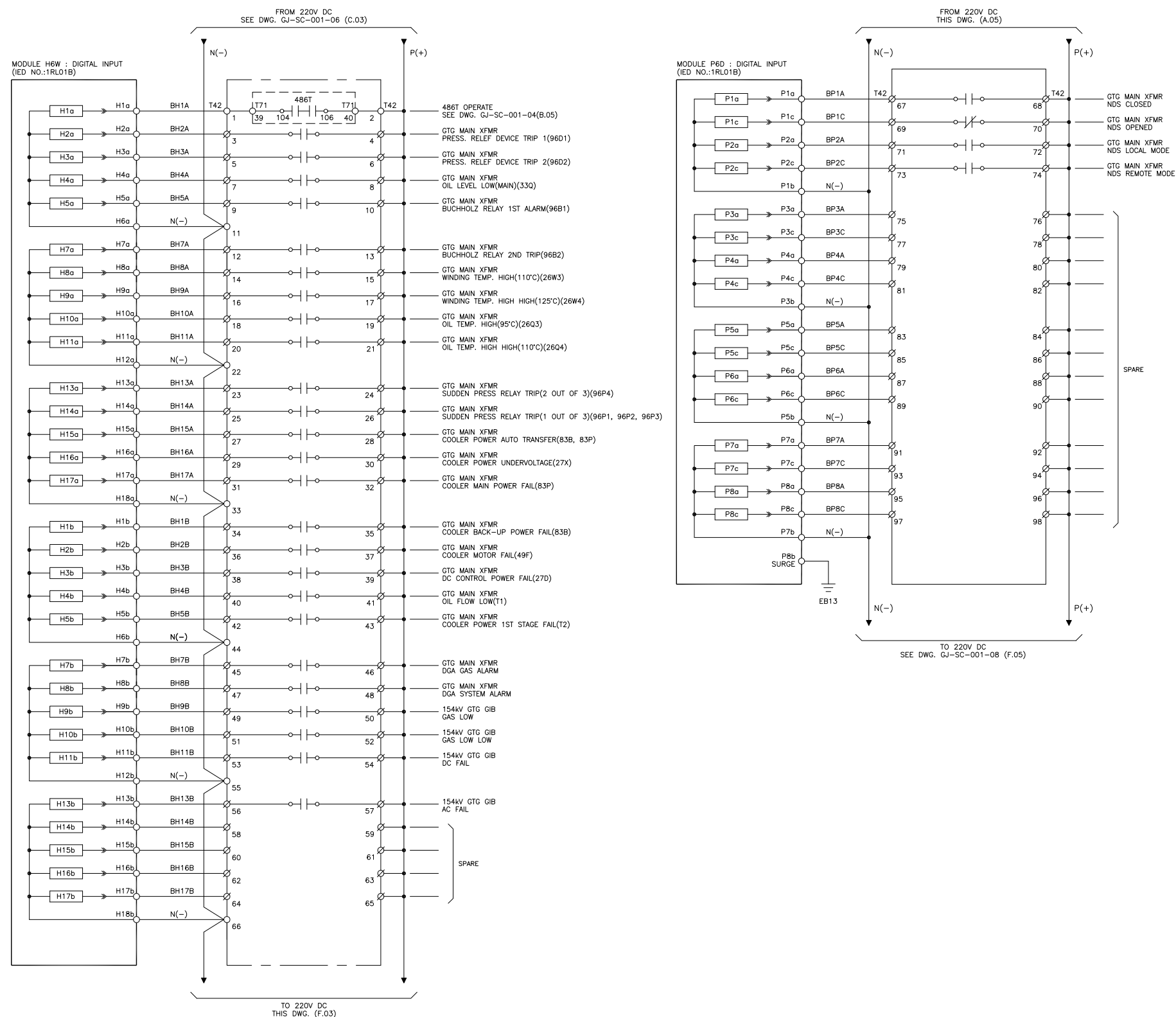
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## NOTES

1. FOR SYMBOLS & LEGENDS, REFER TO  
DWG. 1GJCC9-41900-BE-140-001(GJ-SL-001-01, 02)

## 2. WIRE

DESCRIPTION	TYPE	SIZE	COLOR
CT 2'ND CIRCUIT	XHHW/SIS	6SQ	GREEN
PT 2'ND CIRCUIT	XHHW/SIS	4SQ	RED
AC/DC CIRCUIT(POWER)	XHHW/SIS	2.5SQ	BLACK
DC CIRCUIT(CONTROL)	XHHW/SIS	2.5SQ	BLUE
AC CIRCUIT(CONTROL)	XHHW/SIS	2.5SQ	YELLOW
GROUND	XHHW/SIS	6SQ	BLACK
ANALOG I/O	SHIELDED	0.8SQ	GRAY

## 3. TERMINAL BLOCK

DESCRIPTION	TYPE	RATING
CT TERMINAL	ASSEMBLY TYPE(W/SHORT BAR)	30A
PT TERMINAL	ASSEMBLY TYPE	35A
DC CIRCUIT	ASSEMBLY TYPE	25A
AC/DC INCOMING	ASSEMBLY TYPE	35A

## FOR APPROVAL

						
						
						
	2025.05.23	FOR APPROVAL	J.H.HYUN	J.H.PARK	W.C.JANG	Y.S.YOU
REV.	DATE	DESCRIPTION	PREPARED	CHECKED	REVIEWED	APPROVED
OWNER						
 KOREA WESTERN POWER CO., Ltd. 공주 천연가스 발전소(500MW x 1)						
OE						
 한국지역난방공사(주) <small>Korea District Heating Engineering Co., Ltd.</small>  ANKUG ENGINEERING <small>www.ankugeng.com</small>						
CONTRACTOR						
 GE VERNOVA  DAEWOO E&C						
SUPPLIER						
 YPP CORPORATION						
TITLE		SCHEMATIC DIAGRAM MAIN XFMR & UNIT DIFF. PROT'N PANEL FOR GTG DIGITAL INPUT CIRCUIT (IED NO.: 1RL01B)				
PROJECT DRAWING NUMBER		GJ-SC-001-07			SCALE	SHEET
					NONE	1/1
MULTI UNIT	PROJECT	OWNER'S NUMBER			C/F NO.	REV.
	   1GJCC	9-41900-BE-144-001				A

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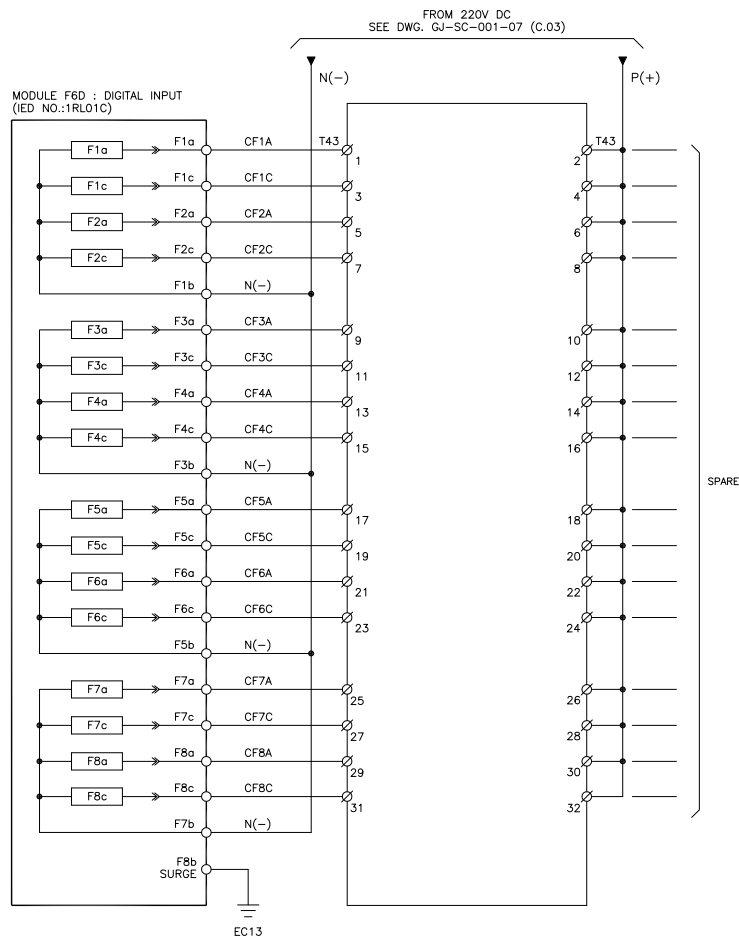
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## NOTES

1. FOR SYMBOLS & LEGENDS, REFER TO  
DWG. 1GJCC9-41900-BE-140-001(GJ-SL-001-01, 02)







## 2. WIRE

DESCRIPTION	TYPE	SIZE	COLOR
CT 2'ND CIRCUIT	XHHW/SIS	6SQ	GREEN
PT 2'ND CIRCUIT	XHHW/SIS	4SQ	RED
AC/DC CIRCUIT(POWER)	XHHW/SIS	2.5SQ	BLACK
DC CIRCUIT(CONTROL)	XHHW/SIS	2.5SQ	BLUE
AC CIRCUIT(CONTROL)	XHHW/SIS	2.5SQ	YELLOW
GROUND	XHHW/SIS	6SQ	BLACK
ANALOG I/O	SHIELDED	0.8SQ	GRAY

## 3. TERMINAL BLOCK

DESCRIPTION	TYPE	RATING
CT TERMINAL	ASSEMBLY TYPE(W/SHORT BAR)	30A
PT TERMINAL	ASSEMBLY TYPE	35A
DC CIRCUIT	ASSEMBLY TYPE	25A
AC/DC INCOMING	ASSEMBLY TYPE	35A

## FOR APPROVAL

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△ A	2025.05.23	FOR APPROVAL	J.H.HYUN	J.H.PARK	W.C.JANG	Y.S.YOU
REV.	DATE	DESCRIPTION	PREPARED	CHECKED	REVIEWED	APPROVED
OWNER						
 <b>KOREA WESTERN POWER CO., Ltd.</b> 공주 천연가스 발전소(500MW x 1)						
OE						
 <b>한국지역난방공사</b> <small>Korea District Heating Engineering Co., Ltd.</small>  <b>ANKUG ENGINEERING</b> <small>www.ankugengr.com</small>						
CONTRACTOR						
 <b>GE VERNOVA</b>  <b>DAEWOO E&amp;C</b>						
SUPPLIER						
 <b>CORPORATION</b>						
TITLE	SCHEMATIC DIAGRAM MAIN XFMR & UNIT DIFF. PROT'N PANEL FOR GTG DIGITAL INPUT CIRCUIT (IED NO.: 1RL01C)					
PROJECT DRAWING NUMBER	GJ-SC-001-08			SCALE	SHEET	
				NONE	1/1	
MULTI UNIT	PROJECT	OWNER'S NUMBER		C/F NO.	REV.	
	1GJCC	9-41900-BE-144-001			A	

A3 (297 x 420 MM)

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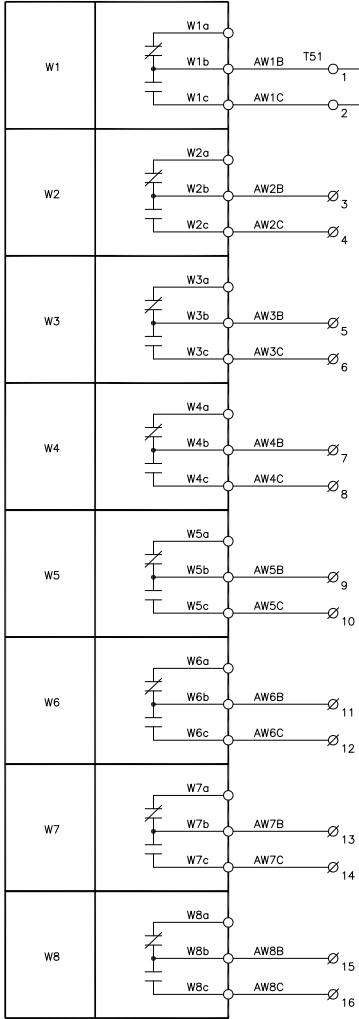
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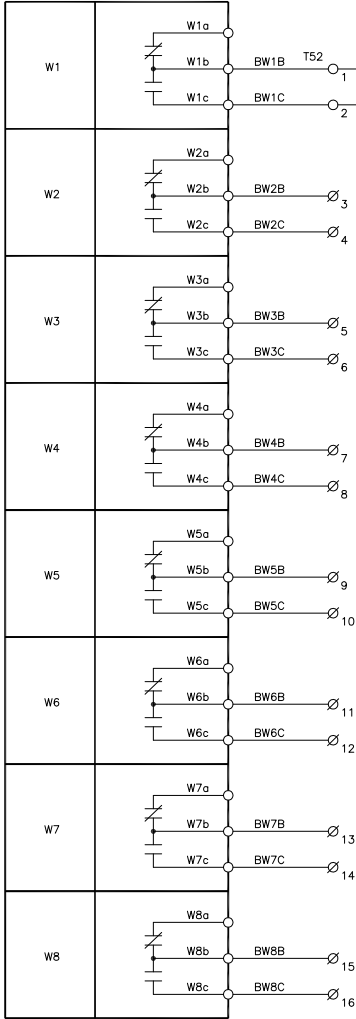
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MODULE W6C : DIGITAL OUTPUT  
(IED NO.:1RL01A)



UNIT DIFF. PROT. RLY OPERATED  
(487U, 359GB)  
SEE DWG.  
GJ-SC-001-03(C.06)

MODULE W6C : DIGITAL OUTPUT  
(IED NO.:1RL01B)



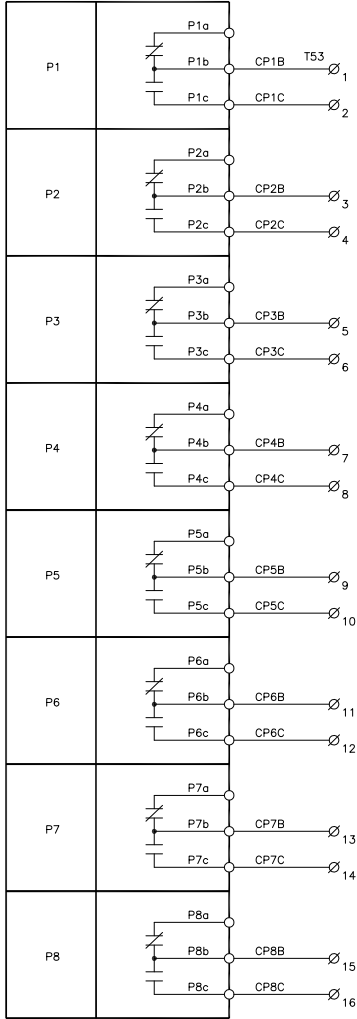
MAIN XFMR PROT. RLY OPERATED  
(487T, 487NT, 450/451)  
SEE DWG.  
GJ-SC-001-03(C.06)

GTG MAIN XFMR  
NDS CLOSE COMMAND

GTG MAIN XFMR  
NDS OPEN COMMAND

SPARE

MODULE P6C : DIGITAL OUTPUT  
(IED NO.:1RL01C)



SPARE

NOTES

1. FOR SYMBOLS & LEGENDS, REFER TO  
DWG. 1GJCC9-41900-BE-140-001(GJ-SL-001-01, 02)

2. WIRE

DESCRIPTION	TYPE	SIZE	COLOR
CT 2'ND CIRCUIT	XHHW/SIS	6SQ	GREEN
PT 2'ND CIRCUIT	XHHW/SIS	4SQ	RED
AC/DC CIRCUIT(POWER)	XHHW/SIS	2.5SQ	BLACK
DC CIRCUIT(CONTROL)	XHHW/SIS	2.5SQ	BLUE
AC CIRCUIT(CONTROL)	XHHW/SIS	2.5SQ	YELLOW
GROUND	XHHW/SIS	6SQ	BLACK
ANALOG I/O	SHIELDED	0.8SQ	GRAY

3. TERMINAL BLOCK

DESCRIPTION	TYPE	RATING
CT TERMINAL	ASSEMBLY TYPE(W/SHORT BAR)	30A
PT TERMINAL	ASSEMBLY TYPE	35A
DC CIRCUIT	ASSEMBLY TYPE	25A
AC/DC INCOMING	ASSEMBLY TYPE	35A

FOR APPROVAL

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△	2025.05.23	FOR APPROVAL	J.H.HYUN	J.H.PARK	W.C.JANG	Y.S.YOU
REV.	DATE	DESCRIPTION	PREPARED	CHECKED	REVIEWED	APPROVED
OWNER						
KWP KOREA WESTERN POWER CO., Ltd. 공주 천연가스 발전소(500MW x 1)						
OE						
KDHEC 한국지역난방공사(주) ANKUG ENGINEERING						
CONTRACTOR						
GE VERNOVA DAEWOO E&C						
SUPPLIER						
YPP CORPORATION						
TITLE						
SCHEMATIC DIAGRAM MAIN XFMR & UNIT DIFF. PROT'N PANEL FOR GTG DIGITAL OUTPUT CIRCUIT (IED NO.: 1RL01A,B,C)						
PROJECT DRAWING NUMBER		GJ-SC-001-09		SCALE		SHEET
				NONE		1/1
MULTI UNIT		PROJECT		OWNER'S NUMBER		REV.
		1GJCC		9-41900-BE-144-001		A

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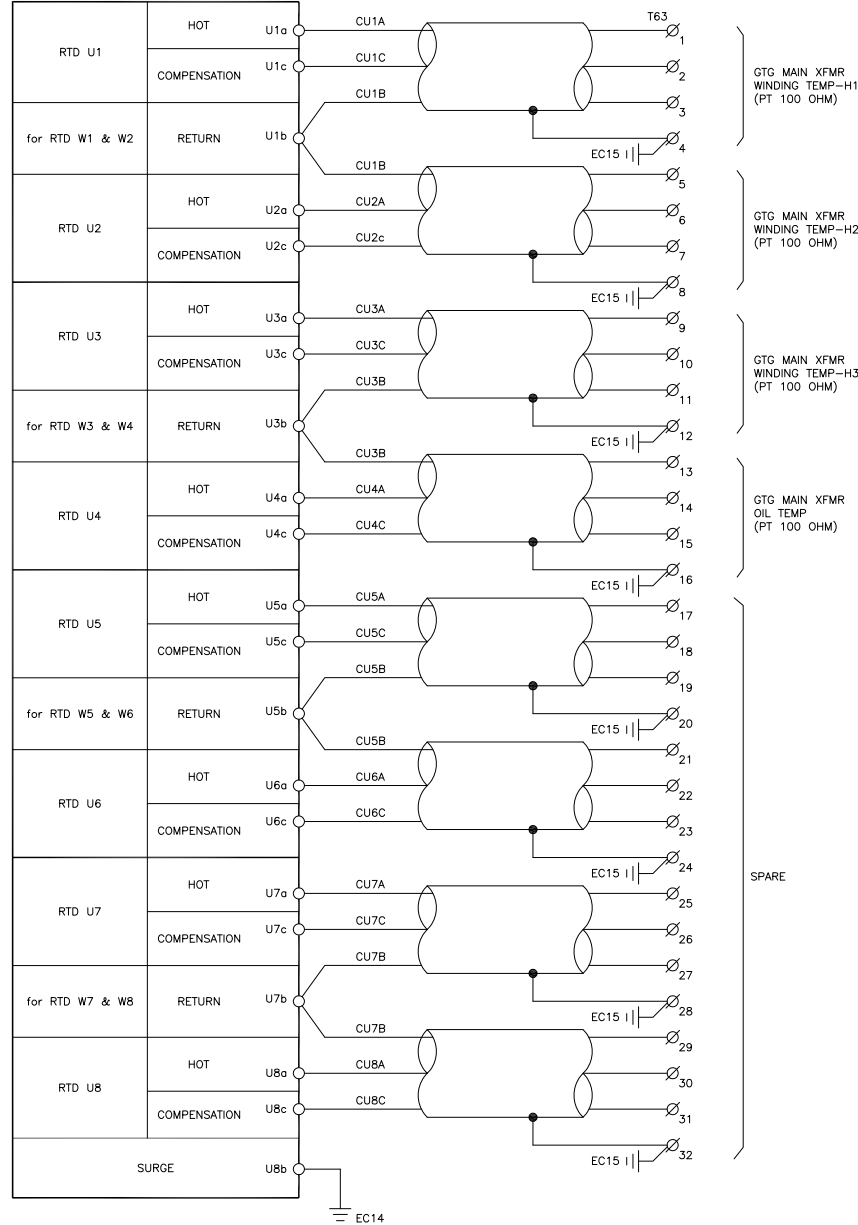
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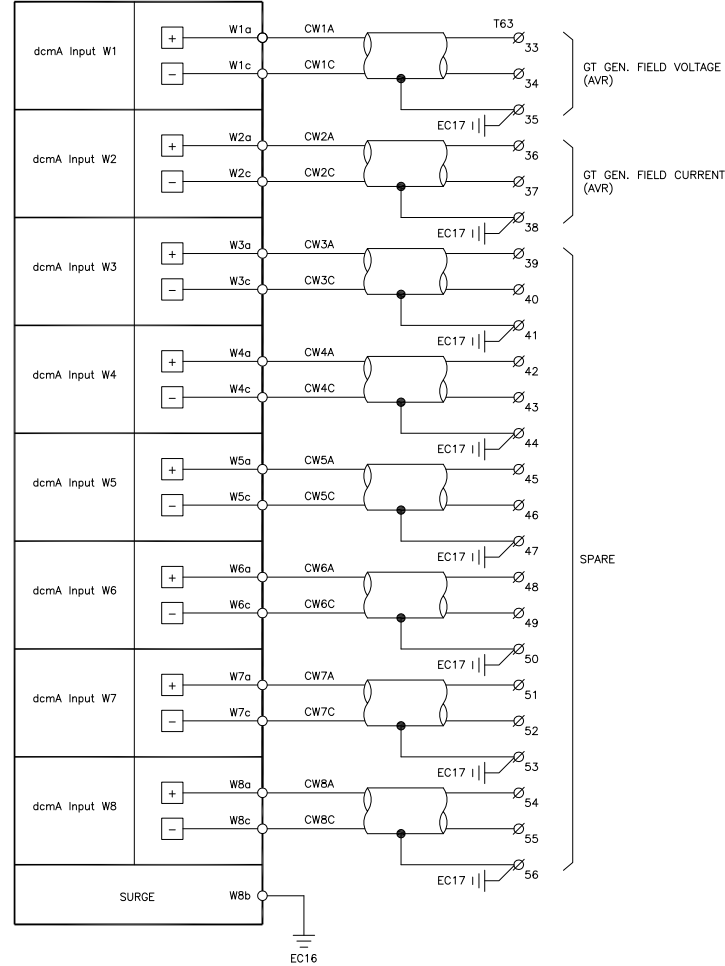
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MODULE U5C : ANALOG INPUT  
(IED NO.:1RL01C)



MODULE W5F : ANALOG INPUT  
(IED NO.:1RL01C)



NOTES

- FOR SYMBOLS & LEGENDS, REFER TO DWG. 1GJCC9-41900-BE-140-001(GJ-SL-001-01, 02)
- WIRE

DESCRIPTION	TYPE	SIZE	COLOR
CT 2'ND CIRCUIT	XHHW/SIS	6SQ	GREEN
PT 2'ND CIRCUIT	XHHW/SIS	4SQ	RED
AC/DC CIRCUIT(POWER)	XHHW/SIS	2.5SQ	BLACK
DC CIRCUIT(CONTROL)	XHHW/SIS	2.5SQ	BLUE
AC CIRCUIT(CONTROL)	XHHW/SIS	2.5SQ	YELLOW
GROUND	XHHW/SIS	6SQ	BLACK
ANALOG I/O	SHIELDED	0.8SQ	GRAY

3. TERMINAL BLOCK

DESCRIPTION	TYPE	RATING
CT TERMINAL	ASSEMBLY TYPE(W/SHORT BAR)	30A
PT TERMINAL	ASSEMBLY TYPE	35A
DC CIRCUIT	ASSEMBLY TYPE	25A
AC/DC INCOMING	ASSEMBLY TYPE	35A

FOR APPROVAL

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△	2025.05.23	FOR APPROVAL	J.H.HYUN	J.H.PARK	W.C.JANG	Y.S.YOU
REV.	DATE	DESCRIPTION	PREPARED	CHECKED	REVIEWED	APPROVED
OWNER						
CWP KOREA WESTERN POWER CO., Ltd. 공주 천연가스 발전소(500MW x 1)						
OE						
KDHEC 한국지역난방공사 (Korea District Heating Engineering Co., Ltd.) ANKUG ENGINEERING						
CONTRACTOR						
GE VERNOVA DAEWOO E&C						
SUPPLIER						
YPP CORPORATION						
TITLE						
SCHEMATIC DIAGRAM MAIN XFMR & UNIT DIFF. PROT'N PANEL FOR GTG ANALOG INPUT (IED NO.: 1RL01C)						
PROJECT DRAWING NUMBER		GJ-SC-001-10		SCALE	SHEET	
				NONE	1/1	
MULTI UNIT	PROJECT	OWNER'S NUMBER		C/F NO.	REV.	
	1GJCC	9-41900-BE-144-001			A	

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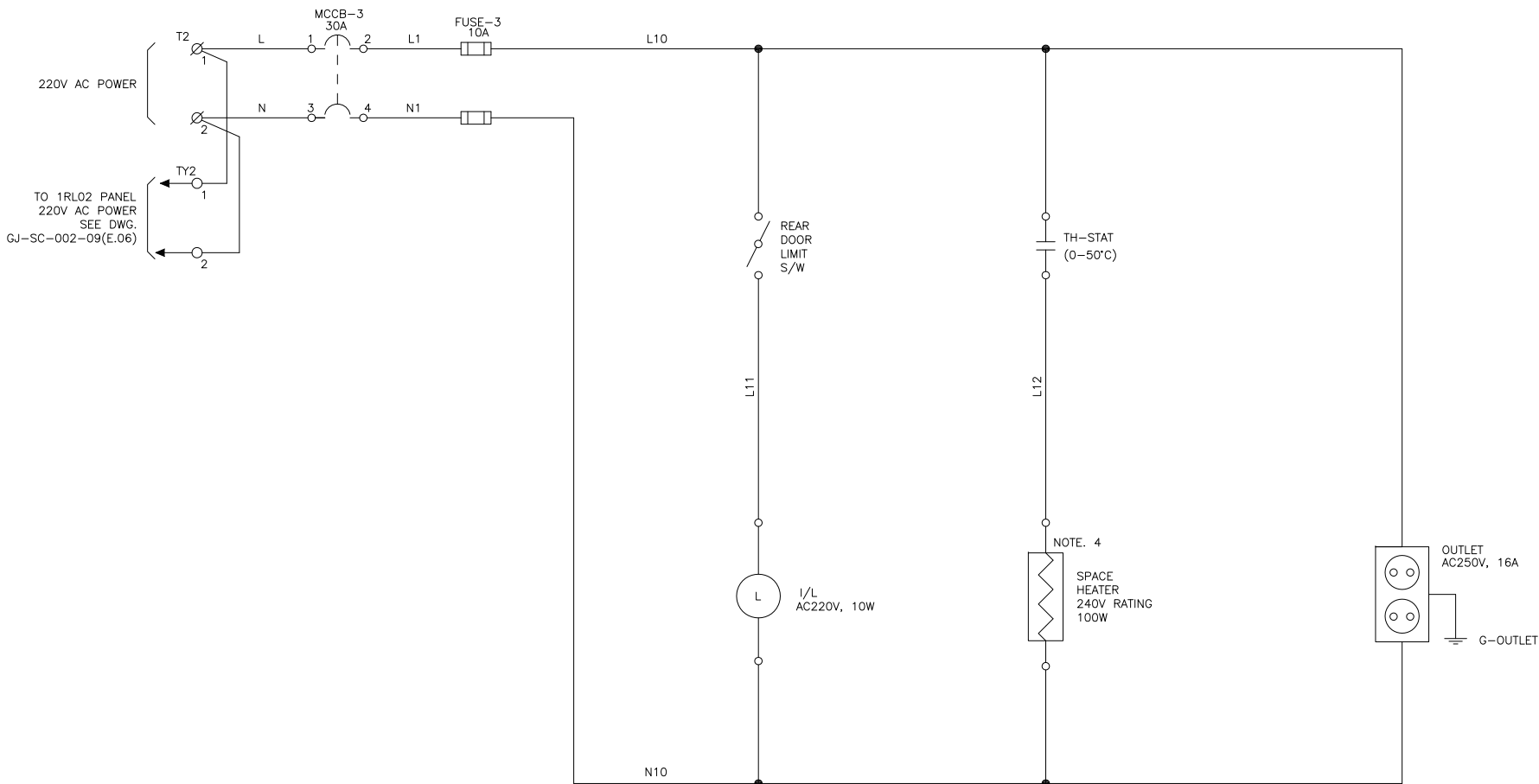
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#### NOTES

1. FOR SYMBOLS & LEGENDS, REFER TO  
DWG. 1GJCC9-41900-BE-140-001(GJ-SL-001-01, 02)

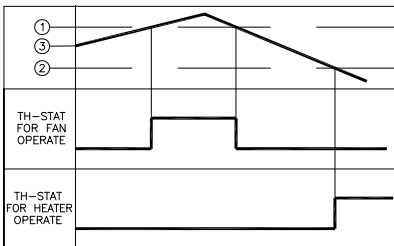
#### 2. WIRE

DESCRIPTION	TYPE	SIZE	COLOR
CT 2'ND CIRCUIT	XHHW/SIS	6SQ	GREEN
PT 2'ND CIRCUIT	XHHW/SIS	4SQ	RED
AC/DC CIRCUIT(POWER)	XHHW/SIS	2.5SQ	BLACK
DC CIRCUIT(CONTROL)	XHHW/SIS	2.5SQ	BLUE
AC CIRCUIT(CONTROL)	XHHW/SIS	2.5SQ	YELLOW
GROUND	XHHW/SIS	6SQ	BLACK
ANALOG I/O	SHIELDED	0.8SQ	GRAY

#### 3. TERMINAL BLOCK

DESCRIPTION	TYPE	RATING
CT TERMINAL	ASSEMBLY TYPE(W/SHORT BAR)	30A
PT TERMINAL	ASSEMBLY TYPE	35A
DC CIRCUIT	ASSEMBLY TYPE	25A
AC/DC INCOMING	ASSEMBLY TYPE	35A

#### 4. THERMOSTAT OPERATING SCHEME



- ① : TH-STAT TEMPERATURE SETTING FOR FAN  
② : TH-STAT TEMPERATURE SETTING FOR HEATER  
③ : AMBIENT TEMPERATURE

#### FOR APPROVAL

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△ A	2025.05.23	FOR APPROVAL	J.H.HYUN	J.H.PARK	W.C.JANG	Y.S.YOU
REV.	DATE	DESCRIPTION	PREPARED	CHECKED	REVIEWED	APPROVED
OWNER <b>Cwp</b> KOREA WESTERN POWER CO., Ltd. 공주 천연가스 발전소(500MW x 1)						
OE <b>KDHEC</b> 한국지역난방기술(주) <b>ANKUG ENGINEERING</b> Korea District Heating Engineering Co., Ltd. www.ankugengr.com						
CONTRACTOR <b>GE VERNOVA</b> <b>DAEWOO E&amp;C</b>						
SUPPLIER <b>YPP CORPORATION</b>						
TITLE	SCHEMATIC DIAGRAM MAIN XFMR & UNIT DIFF. PROT'N PANEL FOR GTG AC CIRCUIT					
PROJECT DRAWING NUMBER		GJ-SC-001-11		SCALE	SHEET	
				NONE	1/1	
MULTI UNIT	PROJECT	OWNER'S NUMBER		C/F NO.	REV.	
		1GJCC 9-41900-BE-144-001			A	

A3 (297 x 420 MM)

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T1			
WIRE NO.	TB NO.	DESTINATION	T.B RATING
P1(+)	1	DC 220V POWER (MAIN)	35A
N1(-)	2		
	3		
P2(+)	4	DC 220V POWER (BACK-UP)	
N2(-)	5		

TY1			
WIRE NO.	TB NO.	DESTINATION	T.B RATING
P1(+)	1	DC 220V POWER (MAIN) TO 1RL02 PANEL	35A
N1(-)	2		
	3		
P2(+)	4	DC 220V POWER (BACK-UP) TO 1RL02 PANEL	
N2(-)	5		

T2			
WIRE NO.	TB NO.	DESTINATION	T.B RATING
L	1	AC 220V POWER	35A
N	2		
	3		
	4	SPARE	
	5		

TY2			
WIRE NO.	TB NO.	DESTINATION	T.B RATING
L	1	AC 220V POWER TO 1RL02 PANEL	35A
N	2		
	3		
	4	SPARE	
	5		

T21			
WIRE NO.	TB NO.	DESTINATION	T.B RATING
AFSA1	1	SPARE	35A
AF6A1	2		
AF7A1	3		
AF7N1	4		
AF8A1	5	GCB 1ST SIDE PT(T35) (26000/√3-190/3V)	
AF8N1	6		
	7~10	SPARE	

T22			
WIRE NO.	TB NO.	DESTINATION	T.B RATING
BF5A1	1	GTG	35A
BF6A1	2	154kV GIB No.1 PT	
BF7A1	3	(154kV/ 110- $\frac{110}{\sqrt{3}}$ V)	
BF7N1	4	FROM 1RL04 PANEL	
	5~10	SPARE	

T31			
WIRE NO.	TB NO.	DESTINATION	T.B RATING
AF1A1	1	154kV GIS CT	30A SHORT BAR (4P)
AF2A1	2	CB 6100 No.60 BUS SIDE CT (3000/5A)	
AF3A1	3		
AF3N1/EA1	4		
AM1A1	5	154kV GIS CT	30A SHORT BAR (4P)
AM2A1	6	CB 6172 No.65 BUS SIDE CT (3000/5A)	
AM3A1	7		
AM3N1/EA2	8		
AM5A1	9	UNIT AUX. XFMR H WDG SIDE CT (15000/5A)	30A SHORT BAR (4P)
AM6A1	10		
AM7A1	11		
AM7N1/EA3	12		
AU1A1	13	GT GEN.	30A SHORT BAR (4P)
AU2A1	14	LINE SIDE CT (21A, 22A, 23A) (13000/5A)	
AU3A1	15		
AU3N1/EA4	16		

T32			
WIRE NO.	TB NO.	DESTINATION	T.B RATING
BF1A1	1	154kV GIS CT	30A
BF2A1	2	CB 6100 No.60 BUS SIDE CT (3000/5A)	SHORT BAR (4P)
BF3N1/EB1	3		
	4		
BM1A1	5	154kV GIS CT	30A
BM2A1	6	CB 6172 No.65 BUS SIDE CT (3000/5A)	SHORT BAR (4P)
BM3A1	7		
	8		
BM3N1/EB2	8	FROM 1RL11 PANEL	
BM4A1	9	MAIN STEP-UP XFMR H WDG NEUTRAL GND CT (2000/5A)	30A
BM4N1/EB3	10		SHORT BAR (4P)
	11		
	12		
BM5A1	13	MAIN STEP-UP XFMR X WDG SIDE CT (20000/5A)	30A
BM6A1	14		SHORT BAR (4P)
BM7A1	15		
BM7N1/EB4	16		

T41			
WIRE NO.	TB NO.	DESTINATION	T.B RATING
AH1A	1	IED NO.: 1RL01A DIGITAL INPUT CIRCUIT	25A
P(+)	2		
AH2A	3		
P(+)	4		
AH3A	5		
P(+)	6		
AH4A	7		
P(+)	8		
AH5A	9		
P(+)	10		
N(-)	11		
AH7A	12		
P(+)	13		
AH8A	14		
P(+)	15		
AH9A	16		
P(+)	17		
AH10A	18		
P(+)	19		
AH11A	20		
P(+)	21		
N(-)	22		
AH13A	23		
P(+)	24		
AH14A	25		
P(+)	26		
AH15A	27		
P(+)	28		
AH16A	29		
P(+)	30		
AH17A	31		
P(+)	32		
N(-)	33		
AH1B	34		
P(+)	35		
AH2B	36		
P(+)	37		
AH3B	38		
P(+)	39		
AH4B	40		
P(+)	41		
AH5B	42		
P(+)	43		
N(-)	44		
AH7B	45		
P(+)	46		
AH8B	47		
P(+)	48		
AH9B	49		
P(+)	50		
AH10B	51		
P(+)	52		
AH11B	53		
P(+)	54		
N(-)	55		
AH13B	56		
P(+)	57		
AH14B	58		
P(+)	59		
AH15B	60		
P(+)	61		
AH16B	62		
P(+)	63		
AH17B	64		
P(+)	65		
N(-)	66		
AP1A	67		
P(+)	68		
AP1C	69		
P(+)	70		
AP2A	71		
P(+)	72		
AP2C	73		
P(+)	74		
AP3A	75		
P(+)	76		
AP3C	77		
P(+)	78		
AP4A	79		
P(+)	80		
AP4C	81		
P(+)	82		
AP5A	83		
P(+)	84		
AP5C	85		
P(+)	86		
AP6A	87		
P(+)	88		
AP6C	89		
P(+)	90		
AP7A	91		
P(+)	92		
AP7C	93		
P(+)	94		
AP8A	95		
P(+)	96		
AP8C	97		
P(+)	98		
	99~100		

T42			
WIRE NO.	TB NO.	DESTINATION	T.B RATING
BH1A	1	IED NO.: 1RL01B DIGITAL INPUT CIRCUIT	25A
P(+)	2		
BH2A	3		
P(+)	4		
BH3A	5		
P(+)	6		
BH4A	7		
P(+)	8		
BH5A	9		
P(+)	10		
N(-)	11		
BH7A	12		
P(+)	13		
BH8A	14		
P(+)	15		
BH9A	16		
P(+)	17		
BH10A	18		
P(+)	19		
BH11A	20		
P(+)	21		
N(-)	22		
BH13A	23		
P(+)	24		
BH14A	25		
P(+)	26		
BH15A	27		
P(+)	28		
BH16A	29		
P(+)	30		
BH17A	31		
P(+)	32		
N(-)	33		
BH1B	34		
P(+)	35		
BH2B	36		
P(+)	37		
BH3B	38		
P(+)	39		
BH4B	40		
P(+)	41		
BH5B	42		
P(+)	43		
N(-)	44		
BH7B	45		
P(+)	46		
BH8B	47		
P(+)	48		
BH9B	49		
P(+)	50		
BH10B	51		
P(+)	52		
BH11B	53		
P(+)	54		
N(-)	55		
BH13B	56		
P(+)	57		
BH14B	58		
P(+)	59		
BH15B	60		
P(+)	61		
BH16B	62		
P(+)	63		
BH17B	64		
P(+)	65		
N(-)	66		
BP1A	67		
P(+)	68		
BP1C	69		
P(+)	70		
BP2A	71		
P(+)	72		
BP2C	73		
P(+)	74		
BP3A	75		
P(+)	76		
BP3C	77		
P(+)	78		
BP4A	79		
P(+)	80		
BP4C	81		
P(+)	82		
BP5A	83		
P(+)	84		
BP5C	85		
P(+)	86		
BP6A	87		
P(+)	88		
BP6C	89		
P(+)	90		
BP7A	91		
P(+)	92		
BP7C	93		
P(+)	94		
BP8A	95		
P(+)	96		
BP8C	97		
P(+)	98		
	99~100		

T43			
WIRE NO.	TB NO.	DESTINATION	T.B RATING
CF1A	1	IED NO.: 1RL01C DIGITAL INPUT CIRCUIT	25A
P(+)	2		
CF1C	3		
P(+)	4		
CF2A	5		
P(+)	6		
CF2C	7		
P(+)	8		
CF3A	9		
P(+)	10		
CF3C	11		
P(+)	12		
CF4A	13		
P(+)	14		
CF4C	15		
P(+)	16		
CF5A	17		
P(+)	18		
CF5C	19		
P(+)	20		
CF6A	21		
P(+)	22		
CF6C	23		
P(+)	24		
CF7A	25		
P(+)	26		
CF7C	27		
P(+)	28		
CF8A	29		
P(+)	30		
CF8C	31		
P(+)	32		
	33~40		

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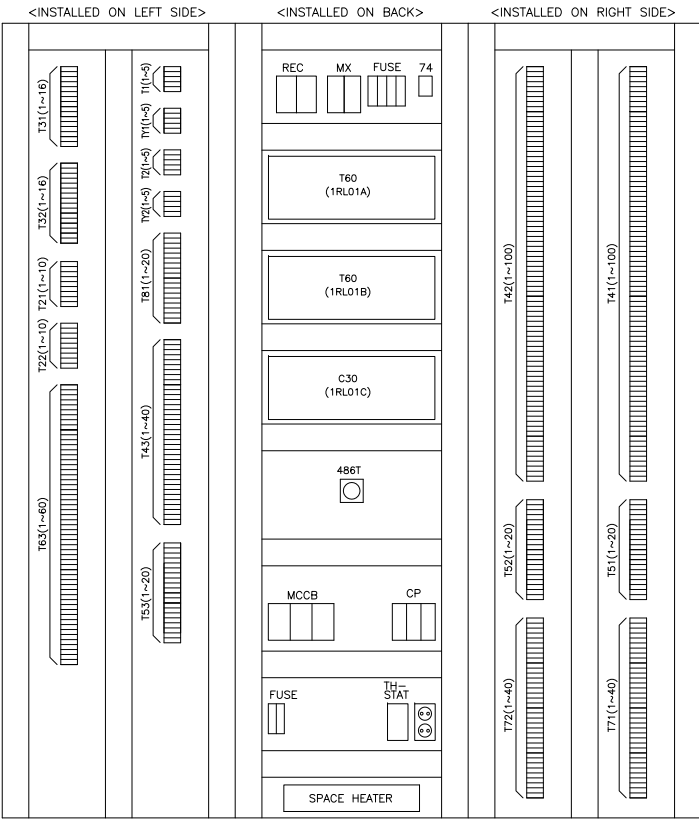
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T63			
WIRE NO.	TB NO.	DESTINATION	T.B RATING
CU1A	1	IED NO.: 1RL01C ANALOG INPUT CIRCUIT	25A
CU1C	2		
CU1B	3		
EC15	4		
CU1B	5		
CU2A	6		
CU2C	7		
EC15	8		
CU3A	9		
CU3C	10		
CU3B	11		
EC15	12		
CU3B	13		
CU4A	14		
CU4C	15		
EC15	16		
CU5A	17		
CU5C	18		
CU5B	19		
EC15	20		
CU5B	21		
CU6A	22		
CU6C	23		
EC15	24		
CU7A	25		
CU7C	26		
CU7B	27		
EC15	28		
CU7B	29		
CU8A	30		
CU8C	31		
EC15	32		
CW1A	33		
CW1C	34		
EC17	35		
CW2A	36		
CW2C	37		
EC17	38		
CW3A	39		
CW3C	40		
EC17	41		
CW4A	42		
CW4C	43		
EC17	44		
CW5A	45		
CW5C	46		
EC17	47		
CW6A	48		
CW6C	49		
EC17	50		
CW7A	51		
CW7C	52		
EC17	53		
CW8A	54		
CW8C	55		
EC17	56		
	57~60		

T71			
86A1	1	486T LOCKOUT RELAY TRIP	25A
86A2	2		
86A3	3		
86A4	4		
86A5	5		
86A6	6		
86A7	7		
86A8	8		
86A9	9		
86A10	10		
86A11	11		
86A12	12		
86A13	13		
86A14	14		
86A15	15		
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86A29	29		
86A30	30		
86A31	31		
86A32	32		
86A33	33		
86A34	34		
86A35	35		
86A36	36		
86A37	37		
86A38	38		
86A39	39		
86A40	40		

T72			
86B1	1	486T LOCKOUT RELAY RESET	25A
86B2	2		
86B3	3		
86B4	4		
86B5	5		
86B6	6		
86B7	7		
86B8	8		
86B9	9		
86B10	10		
86B11	11		
86B12	12		
86B13	13		
86B14	14		
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86B26	26		
86B27	27		
86B28	28		
86B29	29		
86B30	30		
86B31	31		
86B32	32		
86B33	33		
86B34	34		
86B35	35		
86B36	36		
86B37	37		
86B38	38		
86B39	39		
86B40	40		

T81			
WIRE NO.	TB NO.	DESTINATION	T.B RATING
74DCF1	1	DC PWR FAIL (SPARE)	25A
74DCF3	2		
74DCF5	3		
B1A	4	RELAY CRITICAL FAIL (SPARE)	
B2B	5		
	6~10	SPARE	
P(+)	11	MAIN XFMR	
486T	12	MECH. FAULT	
	13~20	SPARE	



NOTES

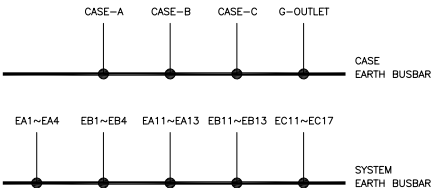
1. FOR SYMBOLS & LEGENDS, REFER TO DWG. 1GJCC9-41900-BE-140-001(GJ-SL-001-01, 02)

2. WIRE











DESCRIPTION	TYPE	SIZE	COLOR
CT 2'ND CIRCUIT	XHHW/SIS	6SQ	GREEN
PT 2'ND CIRCUIT	XHHW/SIS	4SQ	RED
AC/DC CIRCUIT(POWER)	XHHW/SIS	2.5SQ	BLACK
DC CIRCUIT(CONTROL)	XHHW/SIS	2.5SQ	BLUE
AC CIRCUIT(CONTROL)	XHHW/SIS	2.5SQ	YELLOW
GROUND	XHHW/SIS	6SQ	BLACK
ANALOG I/O	SHIELDED	0.8SQ	GRAY

3. TERMINAL BLOCK

DESCRIPTION	TYPE	RATING
CT TERMINAL	ASSEMBLY TYPE(W/SHORT BAR)	30A
PT TERMINAL	ASSEMBLY TYPE	35A
DC CIRCUIT	ASSEMBLY TYPE	25A
AC/DC INCOMING	ASSEMBLY TYPE	35A



FOR APPROVAL

						
						
						
	2025.05.23	FOR APPROVAL	J.H.HYUN	J.H.PARK	W.C.JANG	Y.S.YOU
REV.	DATE	DESCRIPTION	PREPARED	CHECKED	REVIEWED	APPROVED
OWNER						
 KOREA WESTERN POWER CO., Ltd. 공주 천연가스 발전소(500MW x 1)						
OE						
 한국지역난방공사(주) Korea District Heating Engineering Co., Ltd.						
 ANKUG ENGINEERING www.ankugeng.com						
CONTRACTOR						
 GE VERNOVA						
 DAEWOO E&C						
SUPPLIER						
 CORPORATION						
TITLE		SCHEMATIC DIAGRAM MAIN XFMR & UNIT DIFF. PROT'N PANEL FOR GTG TERMINAL BLOCK ARRANGEMENT (2/2)				
PROJECT DRAWING NUMBER		GJ-SC-001-13			SCALE	SHEET
					NONE	1/1
MULTI UNIT		PROJECT	OWNER'S NUMBER		C/F NO.	REV.
		1GJCC	9-41900-BE-144-001			A

BILL OF MATERIAL

DEVICE NO.	DESCRIPTION	TYPE	RATING	Q'TY	MANUFACTURER
1RL01A	UNIT DIFFERENTIAL PROTECTION RELAY	T60-W22-HKH-F8L-H6W-M8N-P6D-U8N-W6C	PT : 50~240V CT : 1A/5A CONTROL POWER : 125~250V DC	1	GE
1RL01B	MAIN XFMR PROTECTION RELAY	T60-W03-HKH-F8L-H6W-M8N-P6D-UXX-W6C		1	
1RL01C	MAIN XFMR MONITORING RELAY	C30-W03-HKH-F6D-HXX-MXX-P6C-U5C-W5F		1	
486T	LOCK-OUT RELAY	7810F	220V DC	1	ELECTRO SWITCH
74DCF	AUX. RLY	YS LY10-2P 220DS	220V DC, 2a, 2b	1	YONGSUNG
MX-1,2	MAGNETIC CONTACTOR	MC40a	220V DC, 2a, 2b	2	LS
CTT	TEST TERMINAL FOR SHORT CIRCUITING OF CT	FTC-082	-	7	GE
PTT	TEST TERMINAL FOR PT	FTC-083	-	2	
REC1,2	RECTIFIER	102L218 G-9	600V DC, 10A	2	
MCCB-1,2,3	MOLDED CASE CIRCUIT BREAKER	ABS32c / 30A	30A	3	LS
CP-1,2,3	MOLDED CASE CIRCUIT BREAKER	BF52c / 15A	15A	3	
FUSE	FUSE HOLDER CAHNNEL FOR ATTACHMENT	KF-32L	-	6	KACON
	FUSE ELEMENT	KFS-B10	10A	6	
I/L	ILLUMINATION LAMP	RLB-10W	220~240V AC, 10W	1	RUN ELECTRONICS
SPACE HEATER	SPACE HEATER	RHTS-100W(CASE : RHTC-60-180)	240V AC, 100W	1	RUN ELECTRONICS
TH-STAT	TH-STAT	CYIT-50	220V AC, 0~50	1	CHO YANG
OUTLET	OUTLET	-	250V AC, 16A	1	-
DOOR S/W	LIMIT S/W	YSR 1215 GW-B	250V DC. 15A	1	YONGSUNG
TERMINAL BLOCK	TERMINAL BLOCK FOR CT CIRCUIT	YSCT-AC(W/SHORT LINK) 4P	250V AC, 30A	1LOT	YONGSUNG
	TERMINAL BLOCK FOR PT CIRCUIT	YSAT 035-01ZA	250V AC, 35A	1LOT	
	TERMINAL BLOCK FOR AC/DC INCOM. CIRCUIT	YSAT 035-01ZA	250V AC, 35A	1LOT	
	TERMINAL BLOCK FOR DC CIRCUIT	YSAT 025-01ZA	250V AC, 25A	1LOT	

WIRE COLOR & SIZE

DEVICE NO.	DESCRIPTION	TYPE	RATING	COLOR	MANUFACTURER
WIRE	CT 2'ND CIRCUIT	0.6/1kV XHHW/SIS	6SQ	GREEN	KUKDONG
	PT 2'ND CIRCUIT	0.6/1kV XHHW/SIS	4SQ	RED	
	AC/DC CIRCUIT(POWER)	0.6/1kV XHHW/SIS	2.5SQ	BLACK	
	DC CIRCUIT(CONTROL)	0.6/1kV XHHW/SIS	2.5SQ	BLUE	
	AC CIRCUIT(CONTROL)	0.6/1kV XHHW/SIS	2.5SQ	YELLOW	
	GROUND CIRCUIT	0.6/1kV XHHW/SIS	6SQ	BLACK	

NOTES

1. FOR SYMBOLS & LEGENDS, REFER TO  
DWG. 1GJCC9-41900-BE-140-001(GJ-SL-001-01, 02)
2. WIRE

DESCRIPTION	TYPE	SIZE	COLOR
CT 2'ND CIRCUIT	XHHW/SIS	6SQ	GREEN
PT 2'ND CIRCUIT	XHHW/SIS	4SQ	RED
AC/DC CIRCUIT(POWER)	XHHW/SIS	2.5SQ	BLACK
DC CIRCUIT(CONTROL)	XHHW/SIS	2.5SQ	BLUE
AC CIRCUIT(CONTROL)	XHHW/SIS	2.5SQ	YELLOW
GROUND	XHHW/SIS	6SQ	BLACK
ANALOG I/O	SHIELDED	0.8SQ	GRAY

3. TERMINAL BLOCK

DESCRIPTION	TYPE	RATING
CT TERMINAL	ASSEMBLY TYPE(W/SHORT BAR)	30A
PT TERMINAL	ASSEMBLY TYPE	35A
DC CIRCUIT	ASSEMBLY TYPE	25A
AC/DC INCOMING	ASSEMBLY TYPE	35A

FOR APPROVAL

	2025.05.23	FOR APPROVAL	J.H.HYUN	J.H.PARK	W.C.JANG	Y.S.YOU
REV.	DATE	DESCRIPTION	PREPARED	CHECKED	REVIEWED	APPROVED
OWNER  KOREA WESTERN POWER CO., Ltd. 공주 천연가스 발전소(500MW x 1)						
OE  한국지역난방공사(KDHEC)  ANKUG ENGINEERING						
CONTRACTOR  GE VERNOVA  DAEWOO E&C						
SUPPLIER  YPP CORPORATION						
TITLE	SCHEMATIC DIAGRAM MAIN XFMR & UNIT DIFF. PROT'N PANEL FOR GTG BILL OF MATERIAL					
PROJECT DRAWING NUMBER		GJ-SC-001-14		SCALE	SHEET	
				NONE	1/1	
MULTI UNIT	PROJECT	OWNER'S NUMBER		C/F NO.	REV.	
		1GJCC 9-41900-BE-144-001			A	