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Purpose of Issue	
For Information	
For Review	
For Approval	
For Construction	✓
AS BUILT	

0	12-03-24	APPROVED FOR CONSTRUCTION	MAF	AMR	KAS				
C	09-01-24	ISSUED FOR APPROVAL	MAF	AMR	KAS				
B	30-11-23	ISSUED FOR APPROVAL	MAF	AMR	KAS				
A	20-09-23	ISSUED FOR APPROVAL	MAF	AMR	KAS				
REV:	DATE	DESCRIPTION	DESIGNED	CHECKED	APPROVED				

OWNER:



NUR
power

N.U.R. GENERATION SDN BHD

OWNER'S ENGINEER:



NUR
power

Jacobs



REMACO
A subsidiary of TNB Power Generation

**NUR ENERGY SERVICES
SDN BHD**

**JACOBS ENGINEERING
GROUP SDN BHD**

TNB REPAIR AND MAINTENANCE SDN BHD

EPC CONSORTIUM:



JURONG ENGINEERING LIMITED



**EQUATOR ENGINEERING SDN.
BHD.**

PROJECT:

**130MW COMBINED CYCLE GAS TURBINE
IN KULIM HI TECH PARK ("PROJECT AURORA")**

TITLE:

SYSTEM INTERCONNECTION DRAWING

Honeywell

JOB NO.

20064

SHT NO.

1/30

PROJECT DOCUMENT NO.

MYP-000311-JEL-INC-SID-0001

REV.NO

0

INDEX

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[illegible]

N. U. R. GENERATION SDN BHD

OWNER'S ENGINEER : **NUR**  **power**
JACOBS
JACOBS ENGINEERING GROUP SDN BHD
REMACO  **REPAIR AND MAINTENANCE SDN BHD**
 EPC CONSORTIUM :

EESB FOR ENGINEERING SDN BHD

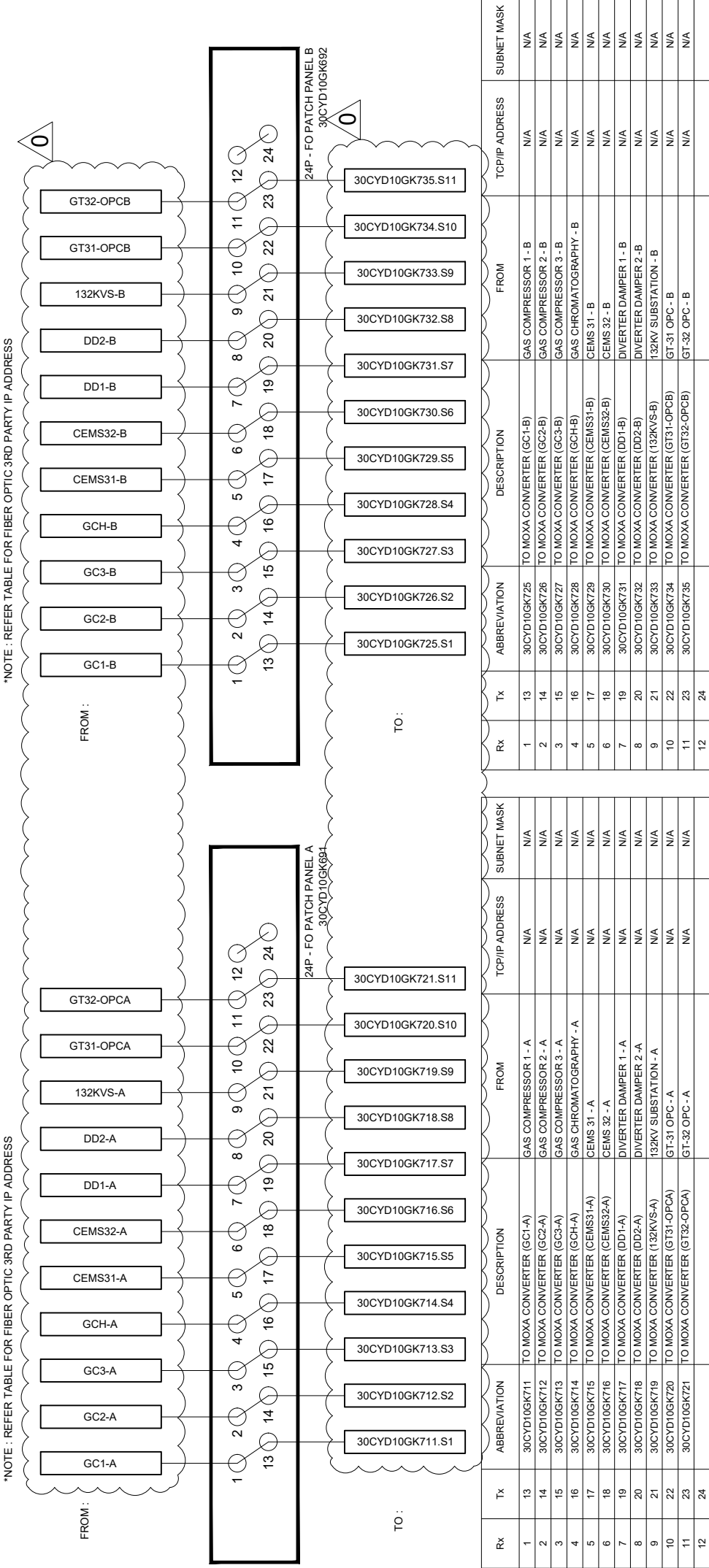
SCALE AS SHOWN

PROJECTION PROJECT: 130MW COMBINED CYCLE GAS TURBINE IN KULIM HI TECH PARK ("PROJECT AURORA")

SYSTEM INTERCONNECTION DRAWING

VENDOR:  HONEYWELL ENGINEERING SDN BHD	JOB NO:	20064	REV	C	SHT	3/30
	PROJECT DRAWING NO: MYP-000311-JEL-INC-SID-0001					

OPTIC PATCH PANEL AT ELECTRICAL ROOM
(30CYD10GK691 & 30CYD10GK692)



CABINET NAME	30CYD10GH001 (NETWORK CABINET - 01)	
IP ADDRESS	30CYD10GK691	N/A
	30CYD10GK692	N/A
MODEL	TECH FR-BT - 24 PORT	


[illegible]

N. U. R. GENERATION SDN BHD

OWNER'S ENGINEER :

NUR
power


JACOBS
JACOBS ENGINEERING
GROUP SDN BHD

JACOBS ENGINEERING
GROUP SDN BHD

JURONG ENGINEERING LIMITED

SCALE AS SHOWN	PROJECTION 	PROJECT: 130MW COMBINED CYCLE GAS TURBINE IN KULIM HI TECH PARK ("PROJECT AURORA")
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SYSTEM INTERCONNECTION DRAWING

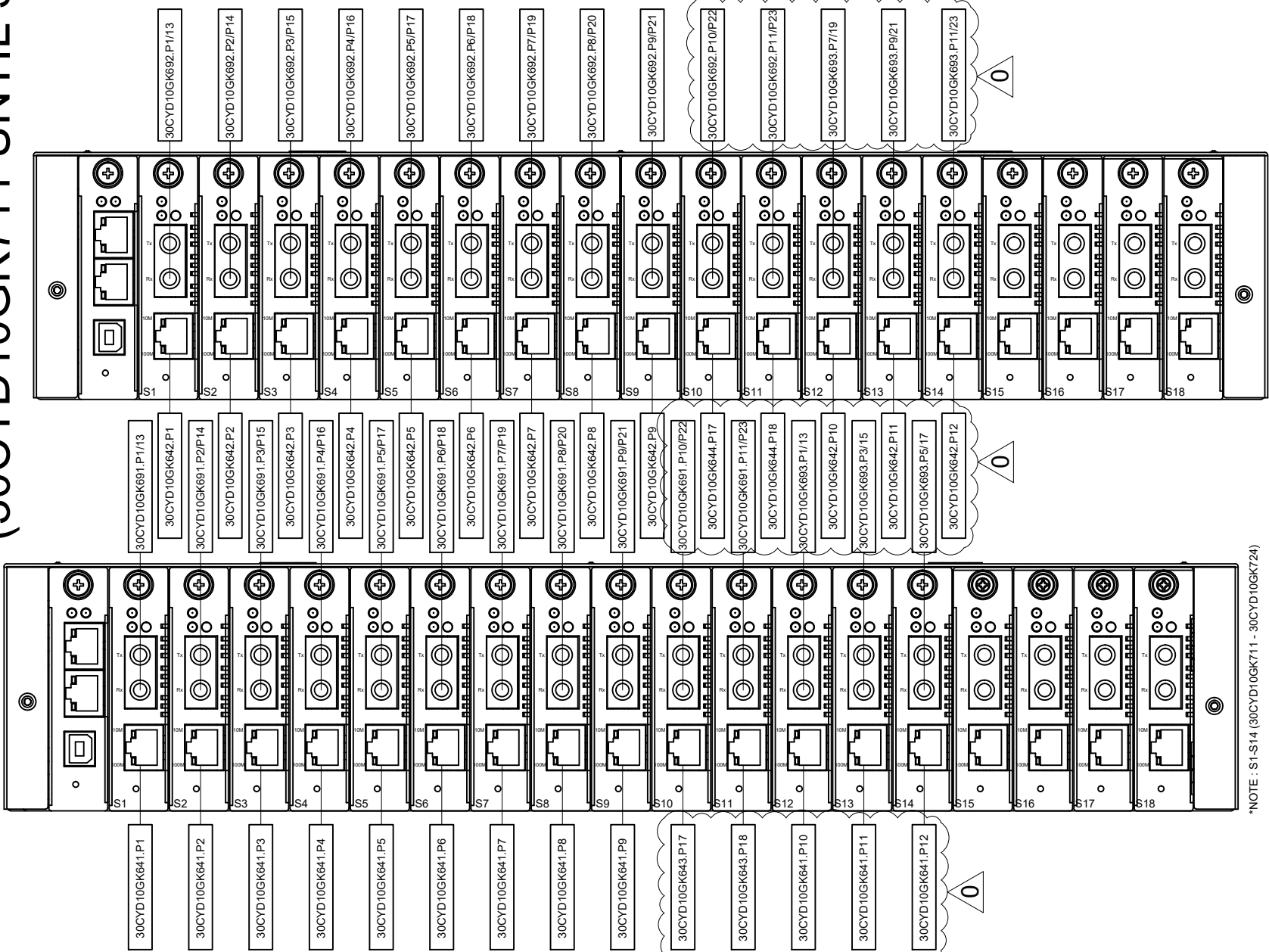
VENDOR:

Honeywell
HONEYWELL ENGINEERING
SDN BHD

REV	20064	C
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PROJECT DRAWING NO:
MYP-000311-JEL-INC-SID-000

MOXA CONVERTER FOR 3 PARTY
(30CYD10GK711 UNTIL 30CYD10GK738)



CHASSIS MODEL : MOXA TRC-2180 MODULE MODEL : MOXA CSM-400-1213					
SLOT	PORT	ABBREVIATION	DESCRIPTION	TCP/IP ADDRESS	SUBNET MASK
1	Tx Rx 10M/ 100M	30CYD10GK691	24P. FIBER OPTIC PATCH PANEL (GC1-A)	N/A	N/A
2	Tx Rx	30CYD10GK641	UPLINK TO 3RD PARTY SWITCH	10.2.2.1	255.255.255.0
	10M/ 100M	30CYD10GK691	24P. FIBER OPTIC PATCH PANEL (GC2-A)	N/A	N/A
3	Tx Rx	30CYD10GK641	UPLINK TO 3RD PARTY SWITCH	10.2.2.1	255.255.255.0
	10M/ 100M	30CYD10GK691	24P. FIBER OPTIC PATCH PANEL (GC3-A)	N/A	N/A
4	Tx Rx	30CYD10GK641	UPLINK TO 3RD PARTY SWITCH	10.2.2.1	255.255.255.0
	10M/ 100M	30CYD10GK691	24P. FIBER OPTIC PATCH PANEL (GC4-A)	N/A	N/A
5	Tx Rx	30CYD10GK641	UPLINK TO 3RD PARTY SWITCH	10.2.2.1	255.255.255.0
	10M/ 100M	30CYD10GK691	24P. FIBER OPTIC PATCH PANEL (GC5-A)	N/A	N/A
6	Tx Rx	30CYD10GK641	UPLINK TO 3RD PARTY SWITCH	10.2.2.1	255.255.255.0
	10M/ 100M	30CYD10GK691	24P. FIBER OPTIC PATCH PANEL (GC6-A)	N/A	N/A
7	Tx Rx	30CYD10GK641	UPLINK TO 3RD PARTY SWITCH	10.2.2.1	255.255.255.0
	10M/ 100M	30CYD10GK691	24P. FIBER OPTIC PATCH PANEL (GC7-A)	N/A	N/A
8	Tx Rx	30CYD10GK641	UPLINK TO 3RD PARTY SWITCH	10.2.2.1	255.255.255.0
	10M/ 100M	30CYD10GK691	24P. FIBER OPTIC PATCH PANEL (GC8-A)	N/A	N/A
9	Tx Rx	30CYD10GK641	UPLINK TO 3RD PARTY SWITCH	10.2.2.1	255.255.255.0
	10M/ 100M	30CYD10GK691	24P. FIBER OPTIC PATCH PANEL (GC9-A)	N/A	N/A
10	Tx Rx	30CYD10GK641	UPLINK TO 3RD PARTY SWITCH	10.2.2.1	255.255.255.0
	10M/ 100M	30CYD10GK691	24P. FIBER OPTIC PATCH PANEL (GC10-A)	N/A	N/A
11	Tx Rx	30CYD10GK641	UPLINK TO 3RD PARTY SWITCH	10.2.2.1	255.255.255.0
	10M/ 100M	30CYD10GK691	24P. FIBER OPTIC PATCH PANEL (GC11-A)	N/A	N/A
12	Tx Rx	30CYD10GK641	UPLINK TO 3RD PARTY SWITCH	10.2.2.1	255.255.255.0
	10M/ 100M	30CYD10GK691	24P. FIBER OPTIC PATCH PANEL (GC12-A)	N/A	N/A
13	Tx Rx	30CYD10GK641	UPLINK TO 3RD PARTY SWITCH	10.2.2.1	255.255.255.0
	10M/ 100M	30CYD10GK691	24P. FIBER OPTIC PATCH PANEL (GC13-A)	N/A	N/A
14	Tx Rx	30CYD10GK641	UPLINK TO 3RD PARTY SWITCH	10.2.2.1	255.255.255.0
	10M/ 100M	30CYD10GK691	24P. FIBER OPTIC PATCH PANEL (GC14-A)	N/A	N/A
15	Tx Rx	30CYD10GK641	UPLINK TO 3RD PARTY SWITCH	10.2.2.1	255.255.255.0
	10M/ 100M	30CYD10GK691	24P. FIBER OPTIC PATCH PANEL (GC15-A)	N/A	N/A
16	Tx Rx	30CYD10GK641	UPLINK TO 3RD PARTY SWITCH	10.2.2.1	255.255.255.0
	10M/ 100M	30CYD10GK691	24P. FIBER OPTIC PATCH PANEL (GC16-A)	N/A	N/A
17	Tx Rx	30CYD10GK641	UPLINK TO 3RD PARTY SWITCH	10.2.2.1	255.255.255.0
	10M/ 100M	30CYD10GK691	24P. FIBER OPTIC PATCH PANEL (GC17-A)	N/A	N/A
18	Tx Rx	30CYD10GK641	UPLINK TO 3RD PARTY SWITCH	10.2.2.1	255.255.255.0
	10M/ 100M	30CYD10GK691	24P. FIBER OPTIC PATCH PANEL (GC18-A)	N/A	N/A

0	12/03/24	APPROVED FOR CONSTRUCTION	MAF	MAF	AMR	KAS
B	08/01/24	ISSUED FOR APPROVAL	MAF	MAF	AMR	KAS
C	30/11/23	ISSUED FOR APPROVAL	MAF	MAF	AMR	KAS
A	13/09/23	ISSUED FOR APPROVAL	MAF	MAF	AMR	KAS
REV	DATE	DESCRIPTION				
OWNER						



NUR ENERGY SERVICES
SDN BHD



JACOBS ENGINEERING GROUP SDN BHD



REMACO ENGINEERING SDN BHD



N. U. R. GENERATION SDN BHD



NUR ENERGY SERVICES
SDN BHD



JACOBS ENGINEERING GROUP SDN BHD



REMACO ENGINEERING SDN BHD



JEBONG ENGINEERING LIMITED



EESB ENGINEERING SDN BHD




130MW COMBINED CYCLE GAS TURBINE
IN KULUM HI TECH PARK ("PROJECT AURORA")



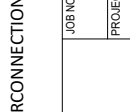
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
PROJECT: 130MW COMBINED CYCLE GAS TURBINE
IN KULUM HI TECH PARK ("PROJECT AURORA")



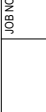
HONEYWELL ENGINEERING SDN BHD



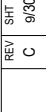
SYSTEM INTERCONNECTION DRAWING




VENDOR:



JOB NO: 20064

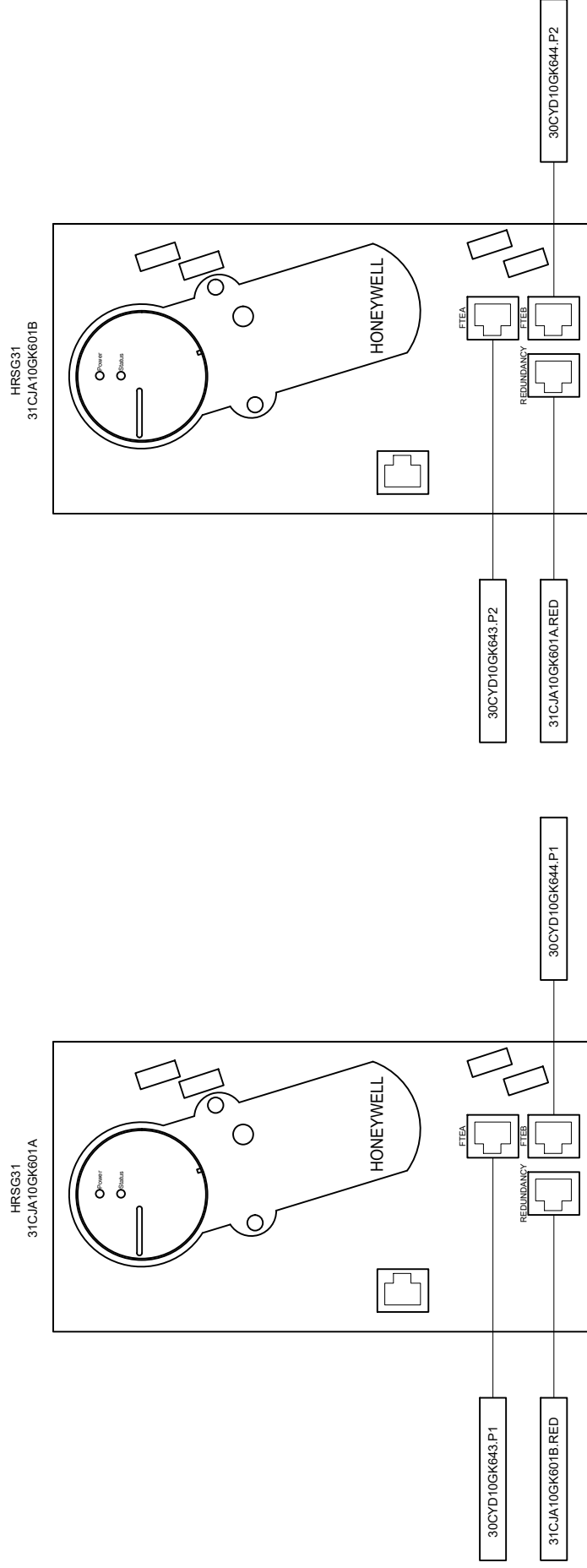


REV SHT: C 9/30



PROJECT DRAWING NO: MYP-000311-JEL-INC-SID-0001

HRSG31 SYSTEM CONTROLLER (31CJA10GK601A & 31CJA10GK601B)



IP ADDRESS 31CJA10GK601AB (10.2.3.21 & 10.2.3.22)				
MODEL : CC-PONT05 & CC-TONT10				
PORT	ABBREVIATION	DESCRIPTION	TCPIP ADDRESS	SUBNET MASK
FTEA	30C7YD10GK643	UPLINK TO NEW L2 SWITCH 1 A 1ER	10.2.0.7	255.255.248.0
FTEB	30C7YD10GK644	UPLINK TO NEW L2 SWITCH 2 A 1ER	10.2.0.8	255.255.248.0
RED.	31CJA10GK601A/B	RED. CONNECTIONS A & B	N/A	N/A

0	12/31/24	APPROVED FOR CONSTRUCTION					
C	09/01/23	ISSUED FOR APPROVAL	MAF	MAF	MAF	KAS	
B	30/11/23	ISSUED FOR APPROVAL	MAF	MAF	MAF	KAS	
A	10/09/22	ISSUED FOR APPROVAL	MAF	MAF	MAF	KAS	
REV	DATE	DESCRIPTION	DRAWN	DESIGNED	CHECKED	APPROVED	

N. U. R. GENERATION SDN BHD

OWNER'S ENGINEER : **NUR ENERGY SERVICES SDN BHD**

JACOBS JACOBS ENGINEERING GROUP SDN BHD


REPAIR AND MAINTENANCE SDN BHD

REMACO

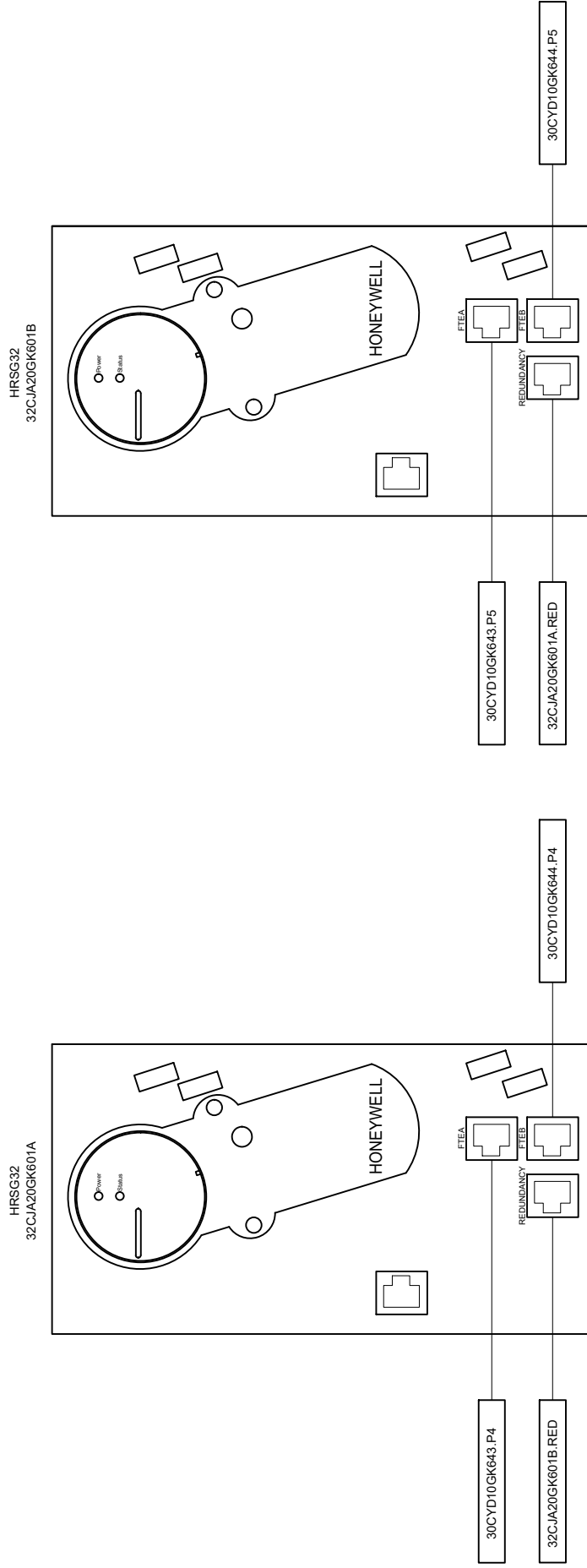
EPC CONSORTIUM : **JTEC** FOR ENGINEERING SDN BHD
JAELONG ENGINEERING LIMITED

SCALE AS SHOWN	PROJECTION 	PROJECT: 130MW COMBINED CYCLE GAS TURBINE IN KULIM HI TECH PARK ("PROJECT AURORA")
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TITLE:	SYSTEM INTERCONNECTION DRAWING
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VENDOR:  HONEYWELL ENGINEERING SDN BHD	JOB NO: 20064	REV C	SHT 12/30
	PROJECT DRAWING NO: MPV-000311-JEL-INC-SID-0001		

HRSG32 SYSTEM CONTROLLER
(32CJA20GK601A & 32CJA20GK601B)



IP ADDRESS: 32CJA20GK601A/B (10.2.3.25 & 10.2.3.26)				
MODEL : CC-PCNT05 & CC-TQNT01				
PORT	ABBREVIATION	DESCRIPTION	TCP/IP ADDRESS	SUBNET MASK
FTEA	30CVDY0GK643	UPLINK TO NEW I2 SWITCH 1 A & T	10.2.0.7	255.255.248.0
FTEB	30CVDY0GK644	UPLINK TO NEW I2 SWITCH 2 A & T	10.2.0.8	255.255.248.0
RED.	32CJA20GK601A/B	RED. BETWEEN CONTROLLER A & B	N/A	N/A

0	12/31/24	APPROVED FOR CONSTRUCTION					
C	09/01/23	ISSUED FOR APPROVAL	MAF	MAF	MAF	KAS	
B	30/11/23	ISSUED FOR APPROVAL	MAF	MAF	MAF	KAS	
A	10/09/22	ISSUED FOR APPROVAL	MAF	MAF	MAF	KAS	
REV	DATE	DESCRIPTION	DRAWN	DESIGNED	CHECKED	APPROVED	

N. U. R. GENERATION SDN BHD

OWNER'S ENGINEER : **NUR ENERGY SERVICES SDN BHD**

JACOBS JACOBS ENGINEERING GROUP SDN BHD


REPAIR AND MAINTENANCE SDN BHD

REMACO

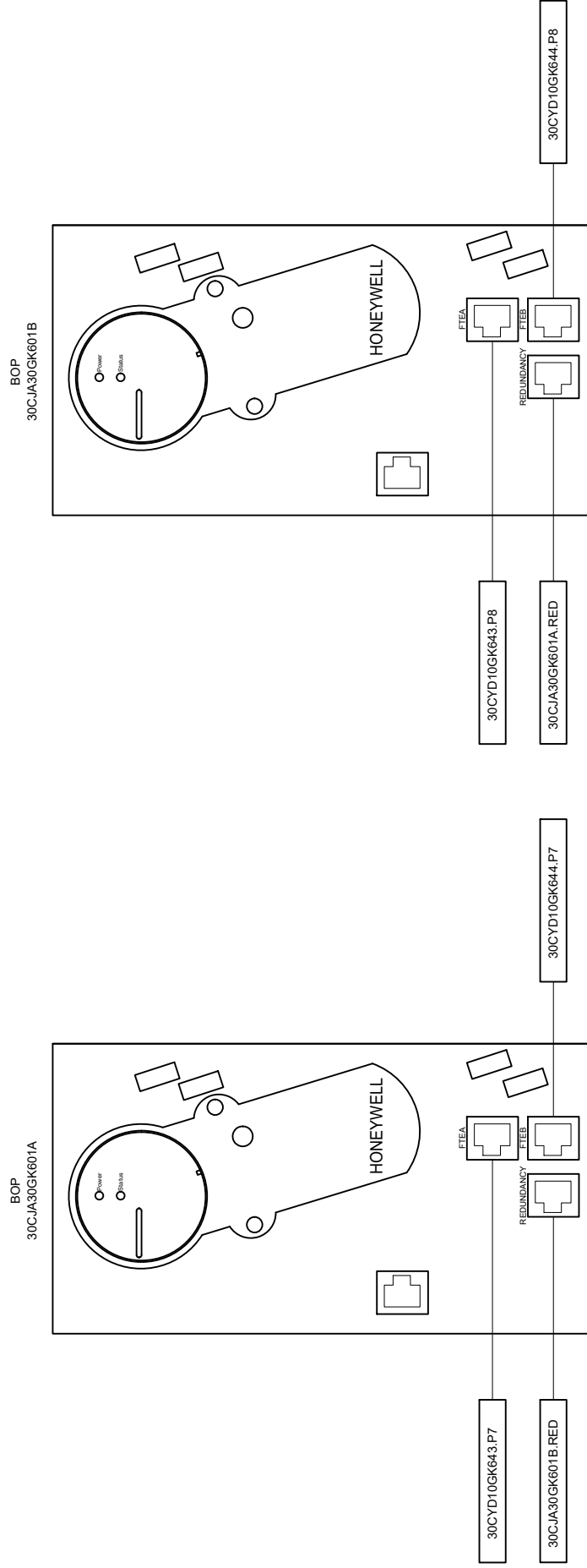
EPC CONSORTIUM : JCEBONG ENGINEERING LIMITED FOR ENGINEERING SDN BHD

SCALE AS SHOWN	PROJECTION 	PROJECT: 130MW COMBINED CYCLE GAS TURBINE IN KULIM HI TECH PARK ("PROJECT AURORA")
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TITLE:	SYSTEM INTERCONNECTION DRAWING
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VENDOR:  HONEYWELL ENGINEERING SDN BHD	JOB NO: 20064	REV C	SHT 13/30
	PROJECT DRAWING NO: MPV-000311-JEL-INC-SID-0001		

BOP SYSTEM CONTROLLER (30CJA30GK601A & 30CJA30GK601B)



IP ADDRESS 30CJA30GK691A/B (10.2.3.31 & 10.2.3.32)				
MODEL : CC-PONT05 & CC-TONT01				
PORT	ABBREVIATION	DESCRIPTION	TCP/IP ADDRESS	SUBNET MASK
FTEA	30CYD10GK643	UPLINK TO NEW L2 SWITCH 1 A & R	10.2.0.7	255.255.255.0
FTEB	30CYD10GK644	UPLINK TO NEW L2 SWITCH 2 A & R	10.2.0.8	255.255.255.0
RED.	30CJA30GK601A/B	RED. DOWN CONTROLLER A & B	N/A	N/A

[illegible]


N. U. R. GENERATION SDN BHD

OWNER'S ENGINEER : **NUR ENERGY SERVICES** SDN BHD
JACOBS
JACOBS ENGINEERING GROUP SDN BHD
TNB REPAIR AND MAINTENANCE SDN BHD
 REMACO Sdn Bhd

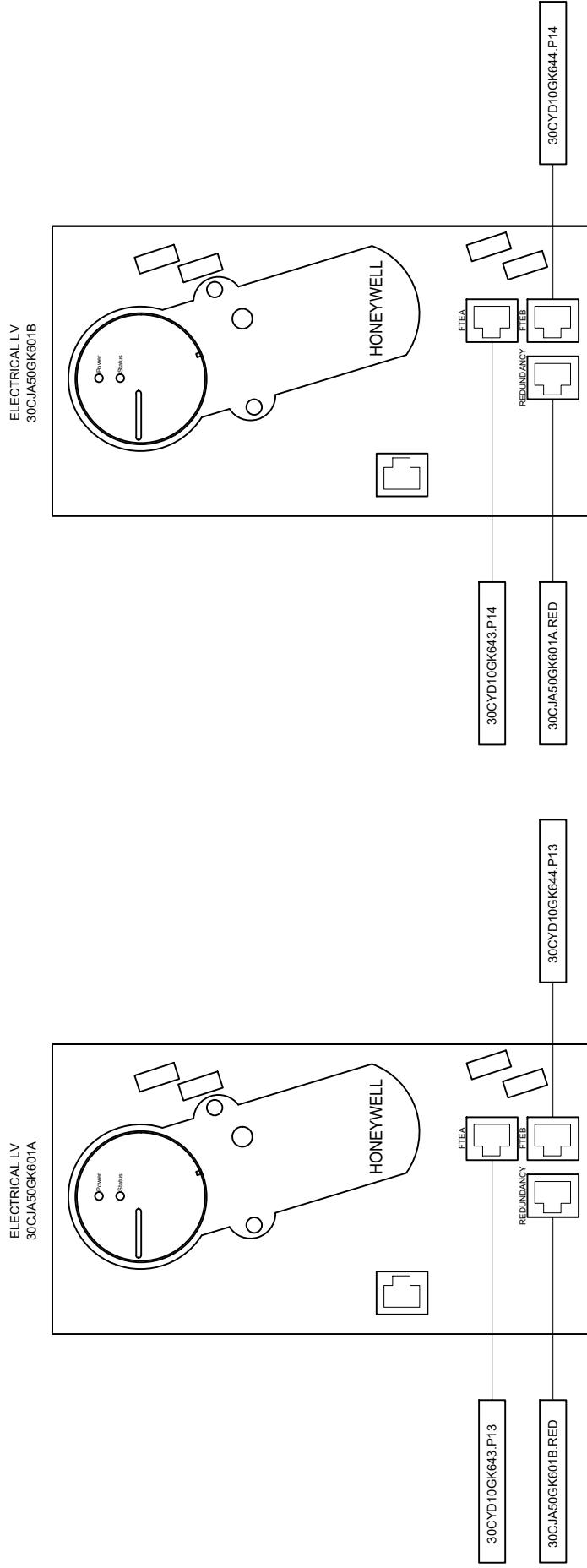
EPC CONSORTIUM : **JEPUNG ENGINEERING LIMITED** **EESB** FOR ENGINEERING SDN BHD

SCALE AS SHOWN	PROJECTION 	PROJECT: 130MW COMBINED CYCLE GAS TURBINE IN KULIM HI TECH PARK ("PROJECT AURORA")
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TITLE: SYSTEM INTERCONNECTION DRAWING

VENDOR:	 HONEYWELL ENGINEERING SDN BHD		
JOB NO:	20064	REV/	SHT
		C	14/30
PROJECT DRAWING NO:			
MYP-000311-JEL-INC-SID-0001			

**ELECTRICAL LV SYSTEM CONTROLLER
(30CJA50GK601A & 30CJA50GK601B)**



IP ADDRESS 30CJA50GK601A/B (10.2.3.41 & 10.2.3.42)				
MODEL : CC-PCNT05 & CC-TQNT01				
PORT	ABBREVIATION	DESCRIPTION	TCP/IP ADDRESS	SUBNET MASK
FTEA	30CYD10GK643	UPLINK TO NEW I2 SWITCH 1 A T ER	10.2.0.7	255.255.2548.0
FTEB	30CYD10GK644	UPLINK TO NEW I2 SWITCH 2 A T ER	10.2.0.8	255.255.2548.0
RED	30CJA50GK601A/B	RED. BETWEEN CONTROLLER A & B	N/A	N/A

0	12/31/24	APPROVED FOR CONSTRUCTION					
C	09/01/23	ISSUED FOR APPROVAL	MAF	MAF	MAF	KAS	
B	30/11/23	ISSUED FOR APPROVAL	MAF	MAF	MAF	KAS	
A	10/09/22	ISSUED FOR APPROVAL	MAF	MAF	MAF	KAS	
REV	DATE	DESCRIPTION	DRAWN	DESIGNED	CHECKED	APPROVED	

N. U. R. GENERATION SDN BHD

OWNER'S ENGINEER : **NUR** private
 **NUR ENERGY SERVICES**
 SDN BHD

Jacobs
 JACOBS ENGINEERING
 GROUP SDN BHD


 **REMAYO**
Engineering & Construction

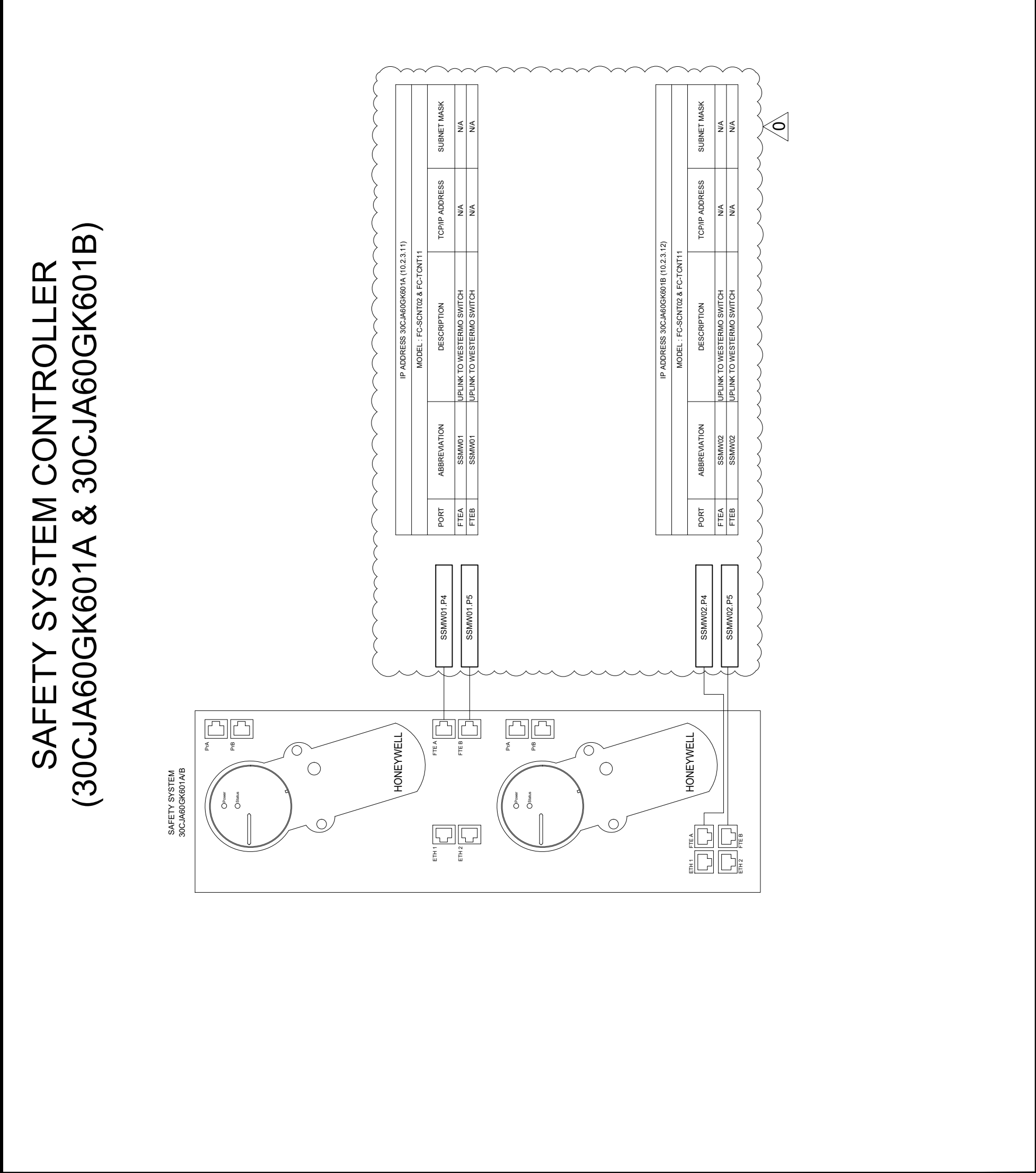
**TNB REPAIR AND
 MAINTENANCE SDN BHD**

EPC CONSORTIUM : JCEBONG ENGINEERING LIMITED FOR ENGINEERING SDN BHD

SCALE AS SHOWN	PROJECTION 	PROJECT: 130MW COMBINED CYCLE GAS TURBINE IN KULIM HI TECH PARK ("PROJECT AURORA")
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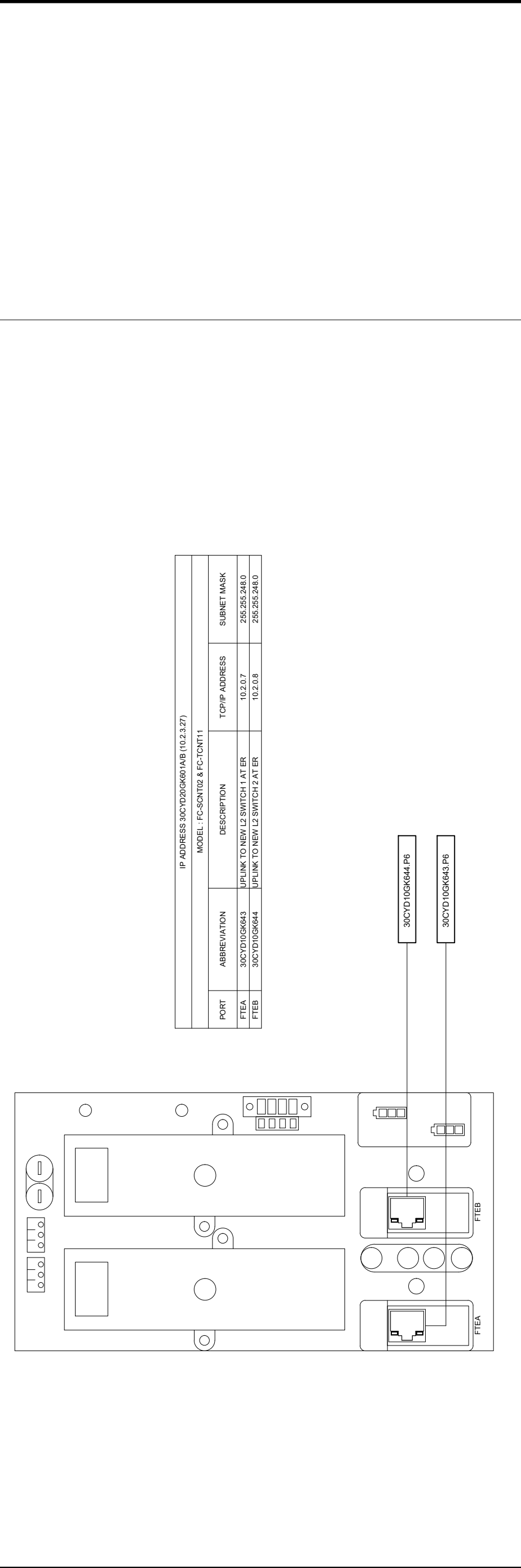
TITLE: SYSTEM INTERCONNECTION DRAWING

VENDOR:	 HONEYWELL ENGINEERING SDN BHD		
JOB NO:	20064	REV	C
		SHT	16/30
PROJECT DRAWING NO: MYP-000311-JEL-INC-SID-0001			

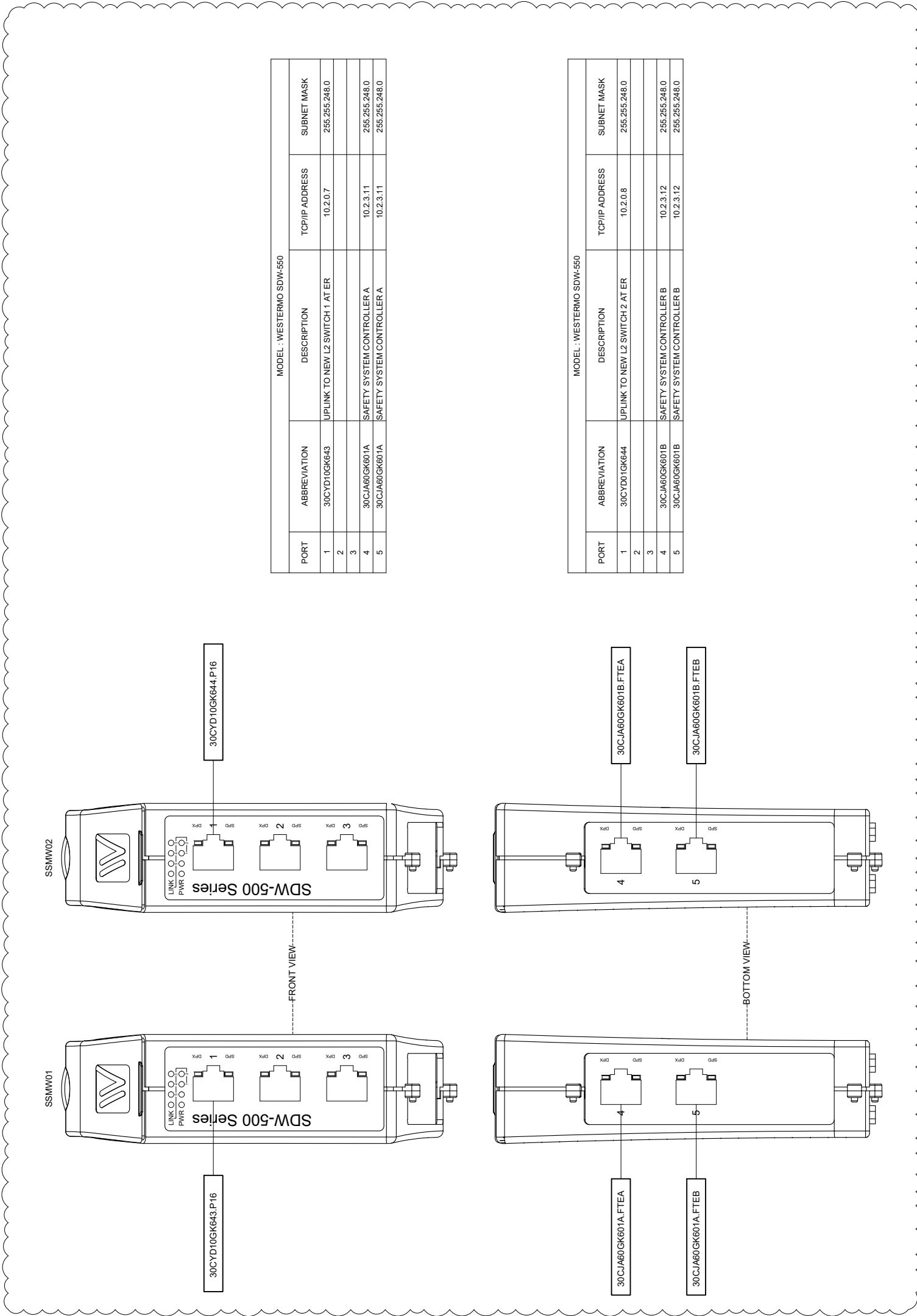
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<div>OWNER:</div> <div>  </div> <div>N. U. R. GENERATION SDN BHD</div>	<div>OWNER'S ENGINEER:</div> <div>  </div> <div>  </div> <div>  </div> <div>JACOBS ENGINEERING GROUP SDN BHD</div>	<div>EPC CONSORTIUM:</div> <div>  </div> <div>JERONG ENGINEERING LIMITED</div> <div>  </div> <div>(OR ENGINEERING SDN BHD)</div>	<div>SCALE</div> <div>  </div> <div>PROJECTION PROJECT:</div> <div>130MW COMBINED CYCLE GAS TURBINE IN KULIM HI TECH PARK ("PROJECT AURORA")</div>	<div>TITLE:</div> <div>SYSTEM INTERCONNECTION DRAWING</div>	<div>VENDOR:</div> <div>  </div> <div>HONEYWELL ENGINEERING SDN BHD</div> <div> <div> <div>JOB NO:</div> <div>20064</div> </div> <div> <div>REV:</div> <div>C</div> </div> </div> <div> <div>SHT</div> <div>17/30</div> </div> <div>PROJECT DRAWING NO:</div> <div>MY-P-00031-JEL-INC-SD-0001</div>
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CONTROL & I/O NETWORK - HRSG 32 (30CYD20GK601A/B)	
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[illegible][illegible]

WESTERMO SWITCH (SSMW01 & SSMW02)	
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MODEL : WESTERMO SDW-560				
PORT	ABBREVIATION	DESCRIPTION	TCPIP ADDRESS	SUBNET MASK
1	30CYDI0GK643	UPLINK TO NEW I/2 SWITCH 1 AT ER	10.2.0.7	255.255.248.0
2				
3				
4	30CJA60G601A	SAFETY SYSTEM CONTROLLER A	10.2.3.11	255.255.248.0
5	30CJA60G601A	SAFETY SYSTEM CONTROLLER A	10.2.3.11	255.255.248.0

MODEL : WESTERNO SDW-560				
PORT	ABBREVIATION	DESCRIPTION	TCPIP ADDRESS	SUBNET MASK
1	30CYD0YDK644	UPLINK TO NEW I2 SWITCH 2 AT ER	10.2.0.8	255.255.248.0
2				
3				
4	30CJA60GKG01B	SAFETY SYSTEM CONTROLLER B	10.2.3.12	255.255.248.0
5	30CJA60GKG01B	SAFETY SYSTEM CONTROLLER B	10.2.3.12	255.255.248.0

0	12/03/24	APPROVED FOR CONSTRUCTION						
C	09/01/24	ISSUED FOR APPROVAL	MAF	MAF	MAF	MAF	MAF	MAF
B	30/11/23	ISSUED FOR APPROVAL	MAF	MAF	MAF	MAF	MAF	MAF
A	13/09/23	ISSUED FOR APPROVAL	MAF	MAF	MAF	MAF	MAF	MAF
REV	DATE	DESCRIPTION	DRAWN	DESIGNED	CHECKED	APPROVED		


N. U. R. GENERATION SDN BHD

OWNER'S ENGINEER :	 NUR power NUR ENERGY SERVICES SDN BHD	 Jacobs JACOBS ENGINEERING GROUP SDN BHD	 REMACO A subsidiary of MRCB BERDAK TNB REPAIR AND MAINTENANCE SDN BHD
EPC CONSORTIUM :			

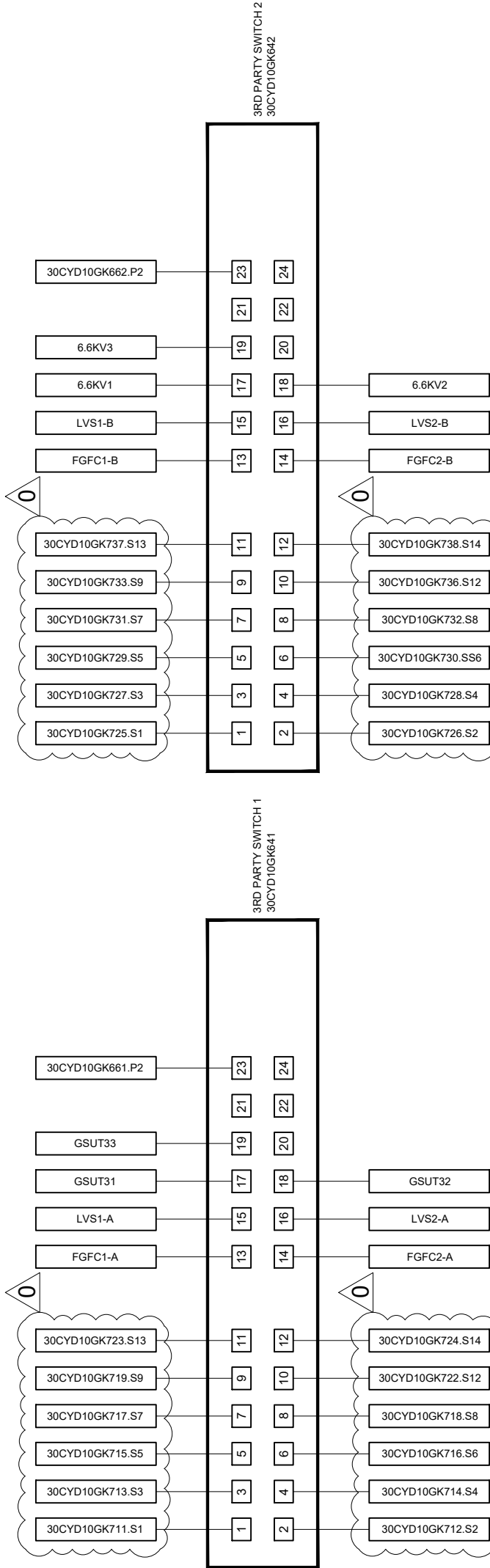
EESB FOR ENGINEERING SDN BHD

SCALE AS SHOWN	PROJECTION 	PROJECT: 130MW COMBINED CYCLE GAS TURBINE IN KULIM HI TECH PARK("PROJECT AURORA")
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SYSTEM INTERCONNECTION DRAWING

VENDOR:	 HONEYWELL ENGINEERING SDN BHD		
JOB NO:	20064	REV	SHT
		C	23/30
PROJECT DRAWING NO:			
MYP-000311-JEL-INC-SID-0001			

3RD PARTY SWITCH AT ER (30CYD10GK641 & 30CYD10GK642)



PORT NO.	CONFIGURE	ABBREVIATION	DESCRIPTION	TCP/IP ADDRESS	SUBNET MASK
1	100MB.FD	30CYD10GK711	FROM MOXA CONVERTER (GC1-A)	N/A	N/A
2	100MB.FD	30CYD10GK712	FROM MOXA CONVERTER (GC2-A)	N/A	N/A
3	100MB.FD	30CYD10GK713	FROM MOXA CONVERTER (GC3-A)	N/A	N/A
4	100MB.FD	30CYD10GK714	FROM MOXA CONVERTER (GC4-A)	N/A	N/A
5	100MB.FD	30CYD10GK715	FROM MOXA CONVERTER (GC5-A)	N/A	N/A
6	100MB.FD	30CYD10GK716	FROM MOXA CONVERTER (GC6-A)	N/A	N/A
7	100MB.FD	30CYD10GK717	FROM MOXA CONVERTER (GC7-A)	N/A	N/A
8	100MB.FD	30CYD10GK718	FROM MOXA CONVERTER (GC8-A)	N/A	N/A
9	100MB.FD	30CYD10GK719	FROM MOXA CONVERTER (GC9-A)	N/A	N/A
10	100MB.FD	30CYD10GK720	FROM MOXA CONVERTER (GC10-A)	N/A	N/A
11	100MB.FD	30CYD10GK721	FROM MOXA CONVERTER (GC11-A)	N/A	N/A
12	100MB.FD	30CYD10GK722	FROM MOXA CONVERTER (GC12-A)	N/A	N/A
13	100MB.FD	30CYD10GK723	FROM MOXA CONVERTER (GC13-A)	N/A	N/A
14	100MB.FD	30CYD10GK724	FROM MOXA CONVERTER (GC14-A)	N/A	N/A
15	100MB.FD	30CYD10GK725	FROM MOXA CONVERTER (GC15-A)	N/A	N/A
16	100MB.FD	30CYD10GK726	FROM MOXA CONVERTER (GC16-A)	N/A	N/A
17	100MB.FD	30CYD10GK727	FROM MOXA CONVERTER (GC17-A)	N/A	N/A
18	100MB.FD	30CYD10GK728	FROM MOXA CONVERTER (GC18-A)	N/A	N/A
19	100MB.FD	30CYD10GK729	FROM MOXA CONVERTER (GC19-A)	N/A	N/A
20	100MB.FD	30CYD10GK730	FROM MOXA CONVERTER (GC20-A)	N/A	N/A
21	100MB.FD	30CYD10GK731	FROM MOXA CONVERTER (GC21-A)	N/A	N/A
22	100MB.FD	30CYD10GK732	FROM MOXA CONVERTER (GC22-A)	N/A	N/A
23	100MB.FD	30CYD10GK733	FROM MOXA CONVERTER (GC23-A)	N/A	N/A
24	100MB.FD	30CYD10GK734	FROM MOXA CONVERTER (GC24-A)	N/A	N/A

PORT NO.	CONFIGURE	ABBREVIATION	DESCRIPTION	TCP/IP ADDRESS	SUBNET MASK
1	100MB.FD	30CYD10GK725	FROM MOXA CONVERTER (GC1-B)	N/A	N/A
2	100MB.FD	30CYD10GK726	FROM MOXA CONVERTER (GC2-B)	N/A	N/A
3	100MB.FD	30CYD10GK727	FROM MOXA CONVERTER (GC3-B)	N/A	N/A
4	100MB.FD	30CYD10GK728	FROM MOXA CONVERTER (GC4-B)	N/A	N/A
5	100MB.FD	30CYD10GK729	FROM MOXA CONVERTER (GC5-B)	N/A	N/A
6	100MB.FD	30CYD10GK730	FROM MOXA CONVERTER (GC6-B)	N/A	N/A
7	100MB.FD	30CYD10GK731	FROM MOXA CONVERTER (GC7-B)	N/A	N/A
8	100MB.FD	30CYD10GK732	FROM MOXA CONVERTER (GC8-B)	N/A	N/A
9	100MB.FD	30CYD10GK733	FROM MOXA CONVERTER (GC9-B)	N/A	N/A
10	100MB.FD	30CYD10GK734	FROM MOXA CONVERTER (GC10-B)	N/A	N/A
11	100MB.FD	30CYD10GK735	FROM MOXA CONVERTER (GC11-B)	N/A	N/A
12	100MB.FD	30CYD10GK736	FROM MOXA CONVERTER (GC12-B)	N/A	N/A
13	100MB.FD	30CYD10GK737	FROM MOXA CONVERTER (GC13-B)	N/A	N/A
14	100MB.FD	30CYD10GK738	FROM MOXA CONVERTER (GC14-B)	N/A	N/A
15	100MB.FD	30CYD10GK739	FROM MOXA CONVERTER (GC15-B)	N/A	N/A
16	100MB.FD	30CYD10GK740	FROM MOXA CONVERTER (GC16-B)	N/A	N/A
17	100MB.FD	30CYD10GK741	FROM MOXA CONVERTER (GC17-B)	N/A	N/A
18	100MB.FD	30CYD10GK742	FROM MOXA CONVERTER (GC18-B)	N/A	N/A
19	100MB.FD	30CYD10GK743	FROM MOXA CONVERTER (GC19-B)	N/A	N/A
20	100MB.FD	30CYD10GK744	FROM MOXA CONVERTER (GC20-B)	N/A	N/A
21	100MB.FD	30CYD10GK745	FROM MOXA CONVERTER (GC21-B)	N/A	N/A
22	100MB.FD	30CYD10GK746	FROM MOXA CONVERTER (GC22-B)	N/A	N/A
23	100MB.FD	30CYD10GK747	FROM MOXA CONVERTER (GC23-B)	N/A	N/A
24	100MB.FD	30CYD10GK748	FROM MOXA CONVERTER (GC24-B)	N/A	N/A

CABINET NAME	30CYD10GK641 (NETWORK CABINET - 01)
IP ADDRESS	30CYD10GK641 30CYD10GK642
PASSWORD TYPE	USERNAME PASSWORD ENABLE SECRET
CISCO VERSION	17.06.05
MODEL	C9300-24T

GATEWAY FOR 3RD PARTY	
3RD PARTY /VENDOR	LINK A
FUEL GAS FLOW COMP 1	10.2.3.102
FUEL GAS FLOW COMP 2	10.2.2.110
LV SWITCHGEAR 1	10.2.2.118
LV SWITCHGEAR 2	10.2.2.126
GSUT 31	10.2.2.134
GSUT 32	10.2.2.142
GSUT 33	10.2.2.150
6.6 KV SWITCHGEAR 1	10.2.2.158
6.6 KV SWITCHGEAR 2	10.2.2.166
6.6 KV SWITCHGEAR 3	10.2.2.174

REV	DATE	DESCRIPTION
0	12/03/24	APPROVED FOR CONSTRUCTION
C	08/01/24	ISSUED FOR APPROVAL
B	30/11/23	ISSUED FOR APPROVAL
A	13/09/23	ISSUED FOR APPROVAL

NUR
ENERGY SERVICES
SDN BHD

JACOBS
ENGINEERING GROUP
SDN BHD

REMACO
ENGINEERING
SDN BHD

N. U. R. GENERATION SDN BHD

JACOBS
ENGINEERING GROUP
SDN BHD

THE REPAIR AND MAINTENANCE SDN BHD

EPC CONSORTIUM :
 JEBONG ENGINEERING LIMITED **EESB** ENGINEERING SDN BHD

SCALE: PROJECT: 130MW COMBINED CYCLE GAS TURBINE
AS SHOWN: IN KULIM HI TECH PARK ("PROJECT AURORA")

TITLE: SYSTEM INTERCONNECTION DRAWING

VENDOR: **Honeywell** HONEYWELL ENGINEERING SDN BHD

JOB NO: 20064

REV: C

SHT: 24/30

PROJECT DRAWING NO: MYP-000311-JEL-INC-SID-0001

LEVEL 2 SWITCH AT ER

(30CYD10GK643 & 30CYD10GK644)

PORT NO.	CONFIGURE	ABBREVIATION	DESCRIPTION	TCP/IP ADDRESS	SUBNET MASK
1	100MB.FD	31CJA10GK601A	FROM HRS31 CONTROLLER A	10.2.3.21	255.255.248.0
2	100MB.FD	31CJA10GK601B	FROM HRS31 CONTROLLER B	10.2.3.22	255.255.248.0
3	100MB.FD	30CYD10GK601A	CN100 HIVE HRS31 MODULE A	10.2.3.24	255.255.248.0
4	100MB.FD	32CJA20GK601A	FROM HRS32 CONTROLLER A	10.2.3.25	255.255.248.0
5	100MB.FD	32CJA20GK601B	FROM HRS32 CONTROLLER B	10.2.3.26	255.255.248.0
6	100MB.FD	30CYD20GK601A	CN100 HIVE HRS32 MODULE A	10.2.3.27	255.255.248.0
7	100MB.FD	30CJA30GK601A	FROM STG BOP CONTROLLER A	10.2.3.31	255.255.248.0
8	100MB.FD	30CJA30GK601B	FROM STG BOP CONTROLLER B	10.2.3.32	255.255.248.0
9	100MB.FD	30CYD30GK601B	CN100 HIVE BOP MODULE B	10.2.3.34	255.255.248.0
10	100MB.FD	30CJA40GK601A	ELECTRICAL (MV) CONTROLLER A	10.2.3.35	255.255.248.0
11	100MB.FD	30CJA40GK601B	ELECTRICAL (MV) CONTROLLER B	10.2.3.36	255.255.248.0
12	100MB.FD	30CYD40GK601A	CN100 HIVE EMV MODULE A	10.2.3.37	255.255.248.0
13	100MB.FD	30CJA50GK601A	ELECTRICAL (LV) CONTROLLER A	10.2.3.41	255.255.248.0
14	100MB.FD	30CJA50GK601B	ELECTRICAL (LV) CONTROLLER B	10.2.3.42	255.255.248.0
15	100MB.FD	30CYD50GK601A	CN100 HIVE ELV MODULE A	10.2.3.43	255.255.248.0
16	100MB.FD	SSMW01	FROM WESTERMO 1	N/A	N/A
17	100MB.FD	30CYD10GK720	FROM MOXA CONVERTER (GT31-OPCA)	N/A	N/A
18	100MB.FD	30CYD10GK721	FROM MOXA CONVERTER (GT32-OPCA)	N/A	N/A
19	100MB.FD	ST33-OPCA	FROM ST-33 OPC	N/A	N/A
20	100MB.FD	30CYF10GH001	DIGITAL CLOCK	10.2.3.50	255.255.248.0
21	DOWNLINK	30CYD10GK661	DOWNLINK FROM TOFINO 3RD FIREWALL	N/A	N/A
22	100MB.FD	TBC	CONTROL EDGE PLC A	TBC	255.255.248.0
23	100MB.FD	TBC	CONTROL EDGE PLC B	TBC	255.255.248.0
24					
GB1	UPLINK	30CYD10GK64	TO 12P - FO PATCH PANEL 1-A	N/A	N/A
GB2	DOWNLINK	30CYD10GK64	FROM 12P - FO PATCH PANEL 1-A	N/A	N/A
GB3					
GB4					

PORT NO.	CONFIGURE	ABBREVIATION	DESCRIPTION	TCP/IP ADDRESS	SUBNET MASK
1	100MB.FD	31CJA10GK601A	FROM HRS31 CONTROLLER A	10.2.3.21	255.255.248.0
2	100MB.FD	31CJA10GK601B	FROM HRS31 CONTROLLER B	10.2.3.22	255.255.248.0
3	100MB.FD	30CYD10GK601A	CN100 HIVE HRS31 MODULE A	10.2.3.23	255.255.248.0
4	100MB.FD	32CJA20GK601A	FROM HRS32 CONTROLLER A	10.2.3.25	255.255.248.0
5	100MB.FD	32CJA20GK601B	FROM HRS32 CONTROLLER B	10.2.3.26	255.255.248.0
6	100MB.FD	30CYD20GK601A	CN100 HIVE HRS32 MODULE A	10.2.3.27	255.255.248.0
7	100MB.FD	30CJA30GK601A	FROM BOP CONTROLLER A	10.2.3.31	255.255.248.0
8	100MB.FD	30CJA30GK601B	FROM BOP CONTROLLER B	10.2.3.32	255.255.248.0
9	100MB.FD	30CYD30GK601A	CN100 HIVE BOP MODULE A	10.2.3.33	255.255.248.0
10	100MB.FD	30CJA40GK601A	ELECTRICAL (MV) CONTROLLER A	10.2.3.35	255.255.248.0
11	100MB.FD	30CJA40GK601B	ELECTRICAL (MV) CONTROLLER B	10.2.3.36	255.255.248.0
12	100MB.FD	30CYD40GK601A	CN100 HIVE EMV MODULE A	10.2.3.37	255.255.248.0
13	100MB.FD	30CJA50GK601A	ELECTRICAL (LV) CONTROLLER A	10.2.3.41	255.255.248.0
14	100MB.FD	30CJA50GK601B	ELECTRICAL (LV) CONTROLLER B	10.2.3.42	255.255.248.0
15	100MB.FD	30CYD50GK601A	CN100 HIVE ELV MODULE A	10.2.3.43	255.255.248.0
16	100MB.FD	SSMW01	FROM WESTERMO 1	N/A	N/A
17	100MB.FD	30CYD10GK720	FROM MOXA CONVERTER (GT31-OPCA)	N/A	N/A
18	100MB.FD	30CYD10GK721	FROM MOXA CONVERTER (GT32-OPCA)	N/A	N/A
19	100MB.FD	ST33-OPCA	FROM ST-33 OPC	N/A	N/A
20	100MB.FD	30CYF10GH001	DIGITAL CLOCK	10.2.3.50	255.255.248.0
21	DOWNLINK	30CYD10GK661	DOWNLINK FROM TOFINO 3RD FIREWALL	N/A	N/A
22	100MB.FD	TBC	CONTROL EDGE PLC A	TBC	255.255

OWNER:  **N. U. R. GENERATION SDN BHD**

EPC CONSORTIUM : **JERUNG ENGINEERING LIMITED** **EESB** FOR ENGINEERING SDN BHD

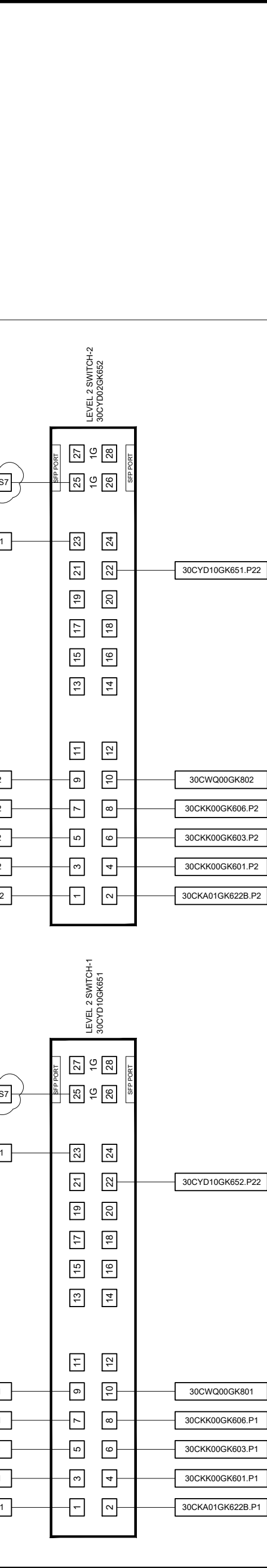
TITLE:	SYSTEM INTERCONNECTION DRAWING
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VENDOR:					
	HONEYWELL ENGINEERING SDN BHD				
	JOB NO:	20064			
PROJECT DRAWING NO:		REV	C	SHT	25/3/20
		MYP-000311-JEL-INC-SID-0001			

The diagram illustrates the Level 2 Switch at the CCR. It features two main components, 30CYD10GK651 and 30CYD10GK652, which are connected via a central switch. The connections are as follows:


- 30CYD10GK651 (Left):**
 - 30CKK00GK608.P1
 - 30CKK00GK604.P1
 - 30CKK00GK602.P1
 - 30CKA01GK624.P1
 - 30CKA01GK622A.P1
- 30CYD10GK652 (Right):**
 - 30CKK00GK608.P2
 - 30CKK00GK604.P2
 - 30CKK00GK602.P2
 - 30CKA01GK624.P2
 - 30CKA01GK622A.P2

Additional labels include 30CYD10GK655.P2 and 30CYD10GK696.S1/5, along with a 0/0 label at the bottom.

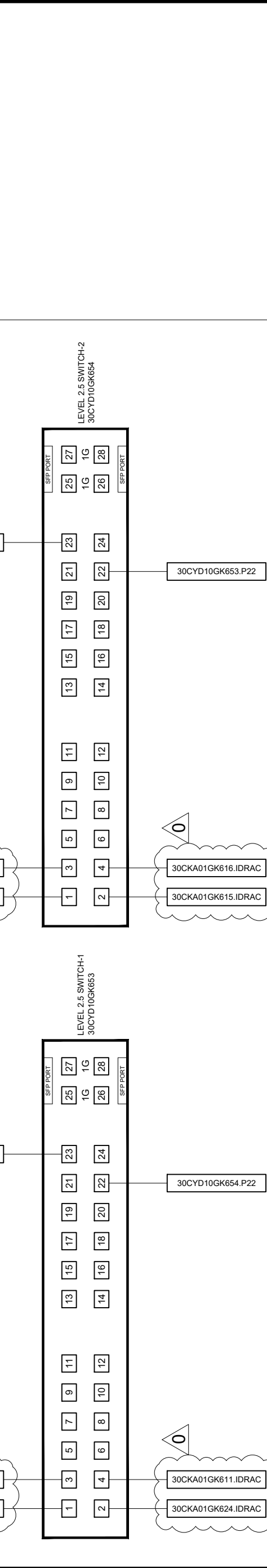


PORT NO.	CONFIGURE	ABBREVIATION	DESCRIPTION	TCP/IP ADDRESS	SUBNET MASK
1	100MB FD	30CKA01GK622A	EXPERION PKS SERVER A	10.2.0.5	255.255.248.0
2	100MB FD	30CKA01GK622B	EXPERION PKS SERVER B	10.2.0.6	255.255.248.0
3	100MB FD	30CKA01GK623	LEVEL 2 DOMAIN CONTROLLER	10.2.0.4	255.255.248.0
4	100MB FD	30CKA00GK601	OPERATOR WORKSTATION 1	10.2.0.11	255.255.248.0
5	100MB FD	30CKA00GK602	OPERATOR WORKSTATION 2	10.2.0.12	255.255.248.0
6	100MB FD	30CKA00GK603	OPERATOR WORKSTATION 3	10.2.0.13	255.255.248.0
7	100MB FD	30CKA00GK604	SCF OPERATOR WORKSTATION	10.2.0.14	255.255.248.0
8	100MB FD	30CKA00GK606	SIL ENGINEERING WORKSTATION	10.2.0.18	255.255.248.0
9	100MB FD	30CKA00GK608	DCS ENGINEERING WORKSTATION	10.2.0.21	255.255.248.0
10	100MB FD	30CWQ00GK602	DCS PRINTER -2	10.2.0.23	255.255.248.0
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22	CL	30CYD10GK652	FTE CROSS LINK CABLE TO SWITCH 2	-	-
23	UPLINK	30CYD10GK655	UPLINK TO LEVEL 3 SWITCH 1	10.2.30.2	255.255.255.0
24					
GB1	DOWNLINK	30CYD10GK696	FROM 12P - FO PATCH PANEL 2- A	N/A	N/A
GB2					
GB3					
GB4					

CABINET NAME		30CYD10GH002 (NETWORK CABINET - 02)	
IP ADDRESS		30CYD10GK651	10.2.0.9
		30CYD10GK652	10.2.0.10
PASSWORD TYPE		USERNAME	ADMIN
		PASSWORD	PASSWORD
		ENABLE SECRET	PASSWORD
CISCO VERSION		17.06.05	
MODEL		C9200L-24T-4G	

TITLE		SYSTEM INTERCONNECTION DRAWING	
VENDOR:		JOB NO:	REV. SRT
 HONEYWELL ENGINEERING SDN BHD		20064	C 26/30
		PROJECT DRAWING NO: MYP-000311-JEL-INC-SID-0001	

The diagram illustrates a Level 2.5 Switch, specifically the 30CYD10GK653 and 30CYD10GK654 models. It features a central horizontal line representing the switch interface. On the left side, there is a vertical line with a small triangle pointing to it, labeled '0'. On the right side, there is a vertical line with a small triangle pointing to it, labeled '0'. The switch is connected to a 30CKA01GK612.IDRAC unit on the left and a 30CKA01GK624.P1 unit on the right. The switch is also connected to a 30CYD10GK655.P20 unit on the left and a 30CYD10GK656.P20 unit on the right. The switch is labeled 'LEVEL 2.5 SWITCH (30CYD10GK653 & 30CYD10GK654)'.



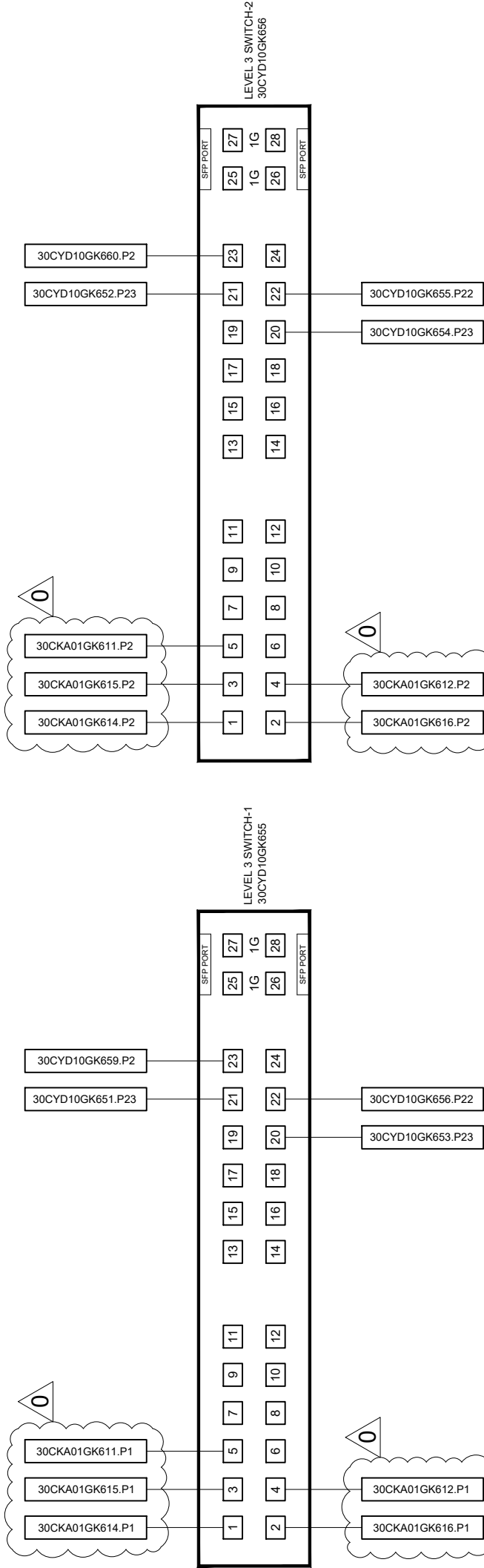
PORT NO.	CONFIGURE	ABBREVIATION	DESCRIPTION	TCP/IP ADDRESS	SUBNET MASK
1	100MB.FD	30CKA01GK624	ESXI HOST SERVER 1	10.2.25.4	255.255.255.0
2	100MB.FD	30CKA01GK624	I-DRAC FOR ESXI HOST SERVER 1	10.2.25.14	255.255.255.0
3	100MB.FD	30CKA01GK612	I-DRAC FOR EBR SERVER	10.2.25.15	255.255.255.0
4	100MB.FD	30CKA01GK611	I-DRAC FOR NAS SERVER	10.2.25.16	255.255.255.0
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22	CL	30CYD10GK654	FTE CROSS LINK CABLE TO SWITCH 2	-	-
23	UPLINK	30CYD10GK655	UPLINK TO LEVEL 3 SWITCH 1	10.2.30.2	255.255.255.0
24					
GB1					
GB2					
GB3					
GB4					

CABINET NAME	30CYD10GH02 (NETWORK CABINET - 02)
IP ADDRESS	30CYD10GK653
	10.2.25.5
PASSWORD TYPE	30CYD10GK654
	10.2.25.6
	USERNAME
	ADMIN
	PASSWORD
	PASSWORD
CISCO VERSION	17.06.05
MODEL	C9200L-24T-4G

TITLE: SYSTEM INTERCONNECTION DRAWING

Vendor:  HONEYWELL ENGINEERING SDN BHD	JOB NO:	20064	REV	C	SHT	27/30
	PROJECT DRAWING NO:					
	MYP-000311-JEL-INC-SID-0001					

LEVEL 3 & ROUTER SWITCH
(30CYD10GK655 & 30CYD10GK656)



PORT NO.	CONFIGURE	ABBREVIATION	DESCRIPTION	TCP/IP ADDRESS	SUBNET MASK
1	100MB.FD	30CKA01GK614	PHD COLLECTOR	10.2.30.7	255.255.255.0
2	100MB.FD	30CKA01GK616	DYNAMO COLLECTOR	10.2.30.8	255.255.255.0
3	100MB.FD	30CKA01GK615	FIELD DEVICE MANAGER	10.2.30.9	255.255.255.0
4	100MB.FD	30CKA01GK612	EBR SERVER	10.2.30.14	255.255.255.0
5	100MB.FD	30CKA01GK611	NAS SERVER	10.2.30.15	255.255.255.0
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19	DOWNLINK	30CYD10GK654	FROM LEVEL 2.5 SWITCH 2 AT CCR	10.2.25.6	255.255.255.0
20	DOWNLINK	30CYD10GK652	FROM LEVEL 2 SWITCH 2 AT CCR	10.2.0.10	255.255.248.0
21	DOWNLINK	30CYD10GK652	FROM LEVEL 2 SWITCH 2 AT CCR	10.2.0.10	255.255.248.0
22	CL	30CYD10GK655	FTE CROSS LINK CABLE TO SWITCH 1	-	-
23	UPLINK	30CYD10GK660	TO FIREWALL FORTINET SWITCH 2	10.2.37.3	255.255.255.248
24					

CABINET NAME		30CYD10GH002 (NETWORK CABINET - 02)	
IP ADDRESS		30CYD10GK655	10.2.30.2
		30CYD10GK656	10.2.30.3
PASSWORD TYPE	USERNAME	ADMIN	
	PASSWORD	PASSWORD	
	ENABLE SECRET	PASSWORD	
CISCO VERSION		17.06.05	
	MODEL	C3800-24T	

0	12/03/24	APPROVED FOR CONSTRUCTION	MAF	MAF	KAS
C	08/01/24	ISSUED FOR APPROVAL	MAF	MAF	KAS
B	30/11/23	ISSUED FOR APPROVAL	MAF	MAF	KAS
A	13/09/23	ISSUED FOR APPROVAL	MAF	MAF	KAS
REV	DATE	DESCRIPTION	DRAWN	DESIGNED	CHECKED
OWNER : N. U. R. GENERATION SDN BHD					

OWNERS ENGINEER : **JACOBS ENGINEERING GROUP SDN BHD**

JACOBS **REPAIR AND MAINTENANCE SDN BHD**

EPC CONSORTIUM : **JEBONG ENGINEERING LIMITED** **EESB** **TOR ENGINEERING SDN BHD**

SCALE : PROJECT : **130MW COMBINED CYCLE GAS TURBINE IN KULIM HI TECH PARK ("PROJECT AURORA")**

TITLE : **SYSTEM INTERCONNECTION DRAWING**

VENDOR: Honeywell HONEYWELL ENGINEERING SDN BHD	JOB NO:	REV	SHT
		20064	C 28/30
PROJECT DRAWING NO: MYP-000311-JEL-INC-SD-0001			

[illegible]


0	12/03/24	APPROVED FOR CONSTRUCTION							
C	09/01/24	ISSUED FOR APPROVAL	MAF	MAF	MAF	MAF	MAF	MAF	MAF
B	30/11/23	ISSUED FOR APPROVAL	MAF	MAF	MAF	MAF	MAF	MAF	MAF
A	13/09/23	ISSUED FOR APPROVAL	MAF	MAF	MAF	MAF	MAF	MAF	MAF
REV	DATE	DESCRIPTION	DRAWN	DESIGNED	CHECKED	APPROVED			

 NUR power
 NUR ENERGY SERVICES SDN BHD
 Jacobs
 JACOBS ENGINEERING GROUP SDN BHD
 REMACO
 TNB REPAIR AND MAINTENANCE SDN BHD

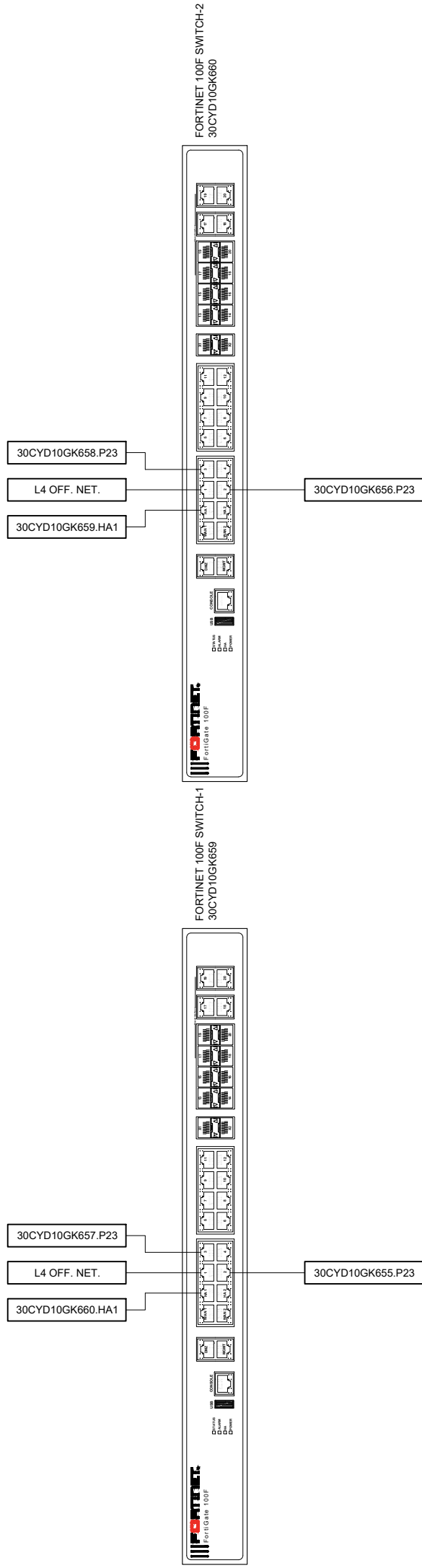
AS SHOWN



130MW COMBINED CYCLE GAS TURBINE
IN KULIM HI TECH PARK("PROJECT AURORA")

VENDOR:  HONEYWELL ENGINEERING SDN BHD	JOB NO:	20064	REV/	SHT
			C	29/30
PROJECT DRAWING NO: MYP-000311-JEL-INC-SID-0001				

**FORTINET 100F SWITCH
(30CYD10GK659 & 30CYD10GK660)**



PORT NO.	CONFIGURE	ABBREVIATION	DESCRIPTION	TCP/IP ADDRESS	SUBNET MASK
DMZ					
MGMIT					
WAN 1					
WAN 2					
HA 1	CL	30CYD10GK660	FTE CROSS LINK CABLE TO FW SWITCH 2	-	-
HA 2					
1	*UPLINK	L4 OFFICE NETWORK	TO EXISTING LEVEL 4 SWITCH	192.168.1.0	
2	DOWNLINK	30CYD10GK655	DOWNLINK FROM L3 SWITCH 1 AT CCR	10.2.30.2	255.55.255.0
3	DOWNLINK	30CYD10GK657	DOWNLINK FROM L3.5 DMZ SWITCH 1 CCR	10.2.35.5	255.55.255.0
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

PORT NO.	CONFIGURE	ABBREVIATION	DESCRIPTION	TCP/IP ADDRESS	SUBNET MASK
DMZ					
MGMT					
WAN 1					
WAN 2					
HA 1	CL	30CYD10GK659	FTE CROSS LINK CABLE TO FW SWITCH 2	-	-
HA 2					
1	*UPLINK	L4 OFFICE NETWORK	TO EXISTING LEVEL 4 SWITCH	192.168.1.0	
2	DOWNLINK	30CYD10GK656	FROM LEVEL 3 SWITCH 2 AT CCR	10.2.30.3	255.55.255.0
3	DOWNLINK	30CYD10GK658	FROM LEVEL 3.5 DMZ SWITCH 2 AT CCR	10.2.35.56	255.55.255.0
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

CABINET NAME	3C3YD10GH002 (NETWORK CABINET - 02)	
IP ADDRESS	3C3YD10GK659	10.2.37.2
	3C3YD10GK660	10.2.37.3
MODEL	FORTIGATE 401E	

NOTE :
1. POINT WITH "*" IS THE EXISTING SWITCH

[illegible]

OWNER :  **NUR**
power


N. U. R. GENERATION SDN BHD

OWNER'S ENGINEER :	 NUR power NUR ENERGY SERVICES SDN BHD	 Jacobs JACOBS ENGINEERING GROUP SDN BHD	 REMACO A subsidiary of REMAX HOLDINGS BERHAD TNB REPAIR AND MAINTENANCE SDN BHD
EPC CONSORTIUM :			

JERONG ENGINEERING LIMITED **EESB** FOR ENGINEERING SDN BHD

SCALE AS SHOWN	PROJECTION 	PROJECT: 130MW COMBINED CYCLE GAS TURBINE IN KULIM HI TECH PARK ("PROJECT AURORA")
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TITLE:	SYSTEM INTERCONNECTION DRAWING
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VENDOR:	 HONEYWELL ENGINEERING SDN BHD		
JOB NO:	20064	REV	C
		SHT	30/30
PROJECT DRAWING NO: MYP-000311-JEL-INC-SID-0001			