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Purpose of Issue

For Information

For Review

✓

For Approval

For Construction

AS BUILT

A	01-08-23	Issued for Approval	Li Zhong Min	Takahashi	Muraoka
REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED

OWNER:



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**

EPC CONSORTIUM:



JURONG ENGINEERING LIMITED



**EQUATOR ENGINEERING SDN.
BHD.**

PROJECT:

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

TITLE:

P & ID - Bypass Stack Package



JURONG ENGINEERING LIMITED

JOB NO.

20064

SHT NO.

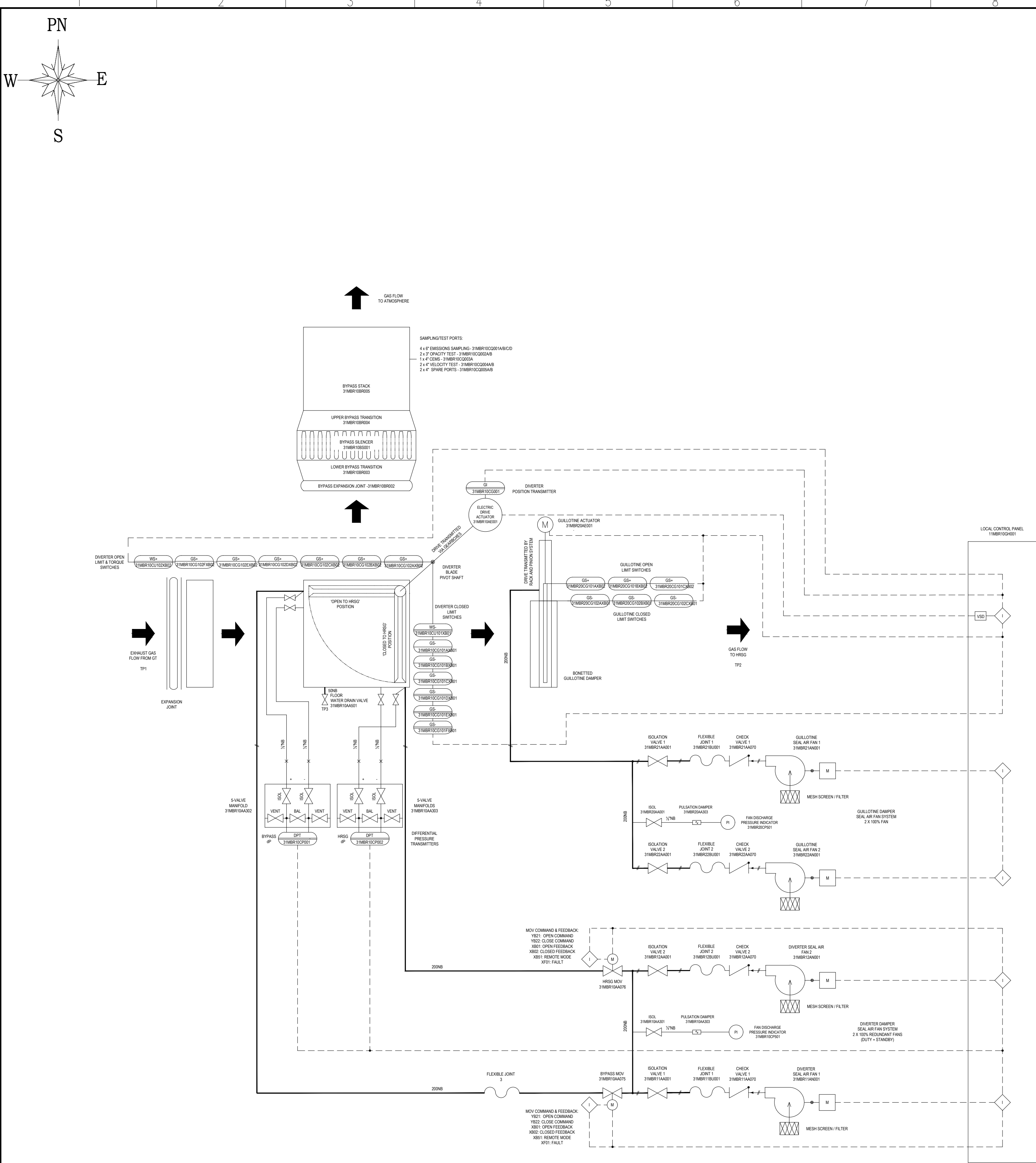
1/2

PROJECT DOCUMENT NO.

PAUR-30-HNE-PD-M3900

REV.NO

A



NOTES:

SEAL AIR SYSTEM CONTROL PHILOSOPHY:

DIVERTER POSITION	BYPASS MOV	HRSG MOV	SEAL AIR FANS
INTERMEDIATE	CLOSED	CLOSED	BOTH STOPPED
OPEN	OPEN	CLOSED	1 OR 2 RUNNING*
CLOSED	CLOSED	OPEN	1 OR 2 RUNNING*

* DEPENDING ON WHICH FAN IS DESIGNATED AS THE DUTY FAN BY THE LOCAL PLC

GUILLOTINE POSITION	SEAL AIR FANS
OPEN	BOTH STOPPED
CLOSED	1 OR 2 RUNNING*







* DEPENDING ON WHICH FAN IS DESIGNATED AS THE DUTY FAN BY THE LOCAL PLC

TAG NUMBERS SHOWN ARE FOR UNIT 1.
UNIT 2- 32MBRxxxxxx

Diverter Seal Air System			Guillotine Seal Air System		
	Normal	Design		Normal	Design
Pressure (kPa)	8.91	9.92	Pressure (kPa)	9.47	10.6
Temperature (°C)	33	40	Temperature (°C)	33	40
Flow (m³/hr)	2736	5000	Flow (m³/hr)	3046	6000

Note: these values cannot be measured on site as there are no instruments required to measure these values.

PURPOSE OF ISSUE	
✓	FOR INFORMATION
	FOR REVIEW
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	FOR CONSTRUCTION
	AS BUILT

B	04/07/2023	UPDATED AS PER COMMENTS	VV	PD	SG	JD
A	13/4/2023	PRELIMINARY	VV	PD	SG	JD
REV.	DATE	DESCRIPTION	DRAWN	DESIGNED	CHECKED	APPROVED
OWNER : <div><div><div>NUR power</div></div><div>N. U. R. GENERATION SDN BHD</div></div>						
OWNER'S ENGINEER : <div><div><div>NUR power</div></div><div>NUR ENERGY SERVICES SDN BHD</div><div><div>JACOBS ENGINEERING GROUP SDN BHD</div><div>XXXXXXXXXX XXXXXXXXXX XXXX</div></div></div>						
EPC CONSORTIUM : <div><div><div>JEL</div></div><div>JURONG ENGINEERING LIMITED</div><div><div>EESB</div></div><div>EQUATOR ENGINEERING SDN. BHD.</div></div>						
SCALE AS SHOWN	PROJECTION 	PROJECT : 130MW COMBINED CYCLE GAS TURBINE IN KULIM HI TECH PARK("PROJECT AURORA")				
TITLE: PIPING AND INSTRUMENTATION DIAGRAM						
PROJECT DRAWING NO: 9191-85-0001			JOB NO: 20064		REV B	SHT 1/1