



- NOTES:**
1. SECONDARY ENCLOSURE IS A CONTINUATION OF THE SAME BOX IN DRAWING NO. ENS-FDP-PID-24002.
 2. PRESSURE DIFFERENTIAL MEASURED AGAINST THE ATMOSPHERIC PRESSURE.
 3. LINE AND DAMPER SIZES TO BE DETERMINED DURING DESIGN OF THE VENTILATION SYSTEM.
 4. THE GLOBE VALVES ARE USED TO SET THE CORRECT WATER FLOW RATE TO THE RESPECTIVE USERS AND NOT AS SHUT-OFF/ISOLATION VALVES. ONCE CORRECT FLOW RATE IS ESTABLISHED, THE VALVES ARE LOCKED IN POSITION.
 5. THE MOISTURE TRAP Y63153 MUST DRAIN AUTOMATICALLY BACK TO THE SCRUBBER SUMP.
 6. LINE SIZE TO BE CONFIRMED DURING DESIGN OF THE INSTRUMENT AIR SUPPLY SYSTEM.
 7. GAS SAMPLES TO BE TAKEN AT THE TOP AND IN THE MIDDLE OF THE PROCESS PIPING TO PREVENT CONDENSATION OF MOISTURE, HF IN THE SAMPLE LINE.
 8. THE BLOWER P83130 IS SITUATED BETWEEN THE TWO BELLOWES TO MINIMIZE VIBRATIONS.
 9. ALL ACTUATED VALVES CAN BE OPENED/CLOSED REMOTELY FROM SCADA SCREEN IN THE CONTROL ROOM AND THE VALVE STATUS IS DISPLAYED ON SCADA SCREEN.
 10. THE STATUS OF RUN INDICATOR XA83164A, XA83122A, XA83126A AND XA83130B ARE DISPLAYED ON SCADA SCREEN IN THE CONTROL ROOM.
 11. VALVE KOB31-119 IS LOCATED AT THE SUMP TANK OF SCRUBBER 83123, INSIDE THE SECONDARY ENCLOSURE IN THE PTFE FACILITY.

REFERENCED P&IDs & DOCUMENTS	
1.	ENS-FDP-PID-24002 - Reactor System 820
2.	ENS-NWPR-PID-24002 - NW Plagasgas Demonstration Plant Subsystem 15
3.	ENS-FDP-PID-24004 - Cooling Water System 832
4.	ENS-FDP-PID-24005 - Gas Supply System 833
5.	ENS-NWPR-PID-24014 - Compressed Air Supply To Lab 150 And 131
6.	ENS-FDP-PID-24006 - Gas Sampling System

FUNC.	NAME	DESIGNATION	SIGNATURE
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CHK'D	M.Mashaya	Process Engineer	
CHK'D	M.Correia	Senior Process Engineer	
CHK'D	S.Mngoma	Chief Mechanical Engineer	
CHK'D	G.Manuel	Chief Engineer Control & Instrumentation	
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REV	DESCRIPTION	PRPD	DATE
3.0	Third revision - Updated flow indicators F83163H and F83165A to FIT83163H and FIQT83165A respectively	N.M	22/10/2024
4.0	Fourth revision - Updated the needle to globe valves in the primary cooling water return lines	N.M	13/02/2024
5.0	Fifth revision - Addressing outstanding HAZOP recommendations	N.M	24/03/2025

	PROJECT	PTFE FILTER DESTRUCTION PROJECT	
	TITLE	KOH SCRUBBER SYSTEM 831	
SCALE - NTS	DRG.No.	ENS-FDP-PID-24003	
UNITS - mm	SHEET	1 OF 1	
	TEAMCENTRE No.		

ENS-FDP-PID-24003