

DESIGN NOTES:

- 1) Damper position will be set during commissioning to ensure continuous flow and dilution to the scrubber inlet.
- 2) T1012 will only be used during maintenance activities for the storage of contaminated material.
- 3) Transfer of oil from T1008 to T1001 will be a batch transfer only.
- 4) Vent from T1001 to scrubber must enter at the top of the header to avoid cross contamination.
- 5) Pump P1004 is mounted directly onto IBC T1008.
- 6) Air supply pressure to pump will be determined during commissioning and operation.

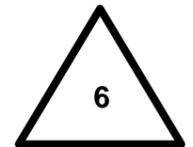
INSIDE LABORATORY; OUTSIDE SECONDARY ENCLOSURE

| FUNCTION | NAME | DESIGNATION | SIGNATURE | REVISION HISTORY | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|---|--|------------|---|-----|-------------|----------|------|---|--------------|-----------|------------|---|-----------------------------|--------|------------|---|--|--------|------------|---|---|--------|------------|---|---|-----------|------------|
| PREPARED | Mr W Ludwick | Senior Process Engineer | | <table border="1"> <thead> <tr> <th>REV</th> <th>DESCRIPTION</th> <th>PREPARED</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>Second Issue</td> <td>W Ludwick</td> <td>2024/10/24</td> </tr> <tr> <td>3</td> <td>Update after Control Review</td> <td>P Dube</td> <td>2024/11/29</td> </tr> <tr> <td>4</td> <td>Update after HAZOP 3 and aligned interlocks as per Interlock Schedule ENS-OWPVR-LST-24005-R1</td> <td>P Dube</td> <td>2025/01/29</td> </tr> <tr> <td>5</td> <td>Update to correct document number in referenced documents</td> <td>P Dube</td> <td>2025/02/20</td> </tr> <tr> <td>6</td> <td>Updated after HAZOP Close-out Report, and completion of equipment specifications and valve and line lists</td> <td>W Ludwick</td> <td>2025/04/10</td> </tr> </tbody> </table> | REV | DESCRIPTION | PREPARED | DATE | 2 | Second Issue | W Ludwick | 2024/10/24 | 3 | Update after Control Review | P Dube | 2024/11/29 | 4 | Update after HAZOP 3 and aligned interlocks as per Interlock Schedule ENS-OWPVR-LST-24005-R1 | P Dube | 2025/01/29 | 5 | Update to correct document number in referenced documents | P Dube | 2025/02/20 | 6 | Updated after HAZOP Close-out Report, and completion of equipment specifications and valve and line lists | W Ludwick | 2025/04/10 |
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| REVIEWED | Mr N Manilal | Process Engineer | | <p>LIST OF REFERENCED P&IDs & DOCUMENTS</p> <ol style="list-style-type: none"> 1) ENS-OWPVR-LST-24004 – PFD & P&ID Lead Sheet 2) ENS-OWPVR-PID-24001 – P&ID for the Plasma Gasification System for the WOPG Demonstration Facility 3) ENS-OWPVR-PID-24004 – P&ID for the Primary Solids Capturing System for the WOPG Demonstration Facility 4) ENS-OWPVR-PID-24008 – P&ID for the Utilities System for the WOPG Demonstration Facility | | | | | | | | | | | | | | | | | | | | | | | | |
| REVIEWED | Mr BM Khumalo | Senior Process Engineer | | | | | | | | | | | | | | | | | | | | | | | | | | |
| REVIEWED | Mr SR Mngoma | Chief Engineer Mechanical | | | | | | | | | | | | | | | | | | | | | | | | | | |
| REVIEWED | Dr G Manuel | Chief Engineer Control & Instrumentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| REVIEWED | Mr WJ van den Berg | Chief Engineer Electrical | | | | | | | | | | | | | | | | | | | | | | | | | | |
| APPROVED | Dr K Moodley | Chief Process Engineer | | | | | | | | | | | | | | | | | | | | | | | | | | |



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Classification:
CONFIDENTIAL

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| PROJECT | URANIUM CONTAMINATED WASTE OIL PLASMA GASIFICATION | | <p>DESTROY ALL PREVIOUS PRINTS</p>  <p>REVISION</p> |
| TITLE | P&ID – WASTE OIL FEED SYSTEM | | |
| DRG. NO. | ENS-OWPVR-PID-24002 | | |
| DRAWN BY | W LUDWICK | SHEET 1 OF 1 | |
| DATE | 2025/04/10 | | |