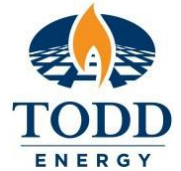


PTW Safety Checklist No. 31



WORKING NEAR A NUCLEAR SOURCE

Other Checklists that may be relevant:		00, 18 ,
Permit Number:		Date:
Rev 1.1	Issue Date: 20/09/2023	Authorised By: PSM

CAUTION:

- 1 If you are **PREGNANT** then you are encouraged to notify the Permit Issuer and / or refuse to enter the restricted “nuclear source-controlled area.”
Please do not hesitate to ask if you are unsure about anything.
- 2 Todd Energy policy is to not subject any person to radiation levels greater than 0.2mSv per year.
For radiation sources installed on the multiphase flowmeters on the Mangahewa wellsites, this equates to 1015 hours (about 1 and a half months) of continuous exposure.
- 3 Personal monitoring devices are not required as the expected exposure is less than 10% of the effective dose limit of 20mSv per year as outlined in Schedule 3 of Radiation Safety Act 2016.
- 4 Checklist #31 is for work inside MHW wellsite flowmeter enclosures only.
- 5 Work on Radiographic inspection equipment use [Checklist 28 Radiography](#).

PRIOR TO PERMIT ISSUE:

- | | Y | N | N/A |
|--|--------------------------|--------------------------|-----|
| 6 Does the person entering the restricted area hold a valid Radiation Safety induction? Check CMS records: (Radiation Awareness Induction).
If Answer = NO entry not allowed | <input type="checkbox"/> | <input type="checkbox"/> | |
| 7 Are you interfering with the nuclear source?
If Answer = YES , then contact the Todd Principal or Todd Radiation Safety Officer identified in the MM Radiation Safety Plan.pdf | <input type="checkbox"/> | <input type="checkbox"/> | |
| 8 The PICWS has read and understood the MM Radiation Safety Plan.pdf for emergency response. | <input type="checkbox"/> | | |
| 9 Check ‘entry register’ to ensure each person entering the restricted area has less than 1015-hours per year accumulative time inside the nuclear source-controlled area.
If Answer = NO indicating that 1015-entry hours per year have been exceeded, then entry will be declined. | <input type="checkbox"/> | <input type="checkbox"/> | |
| 10 Does the person entering the restricted area work with nuclear sources outside of Todd Energy?
If Answer = YES , then: <ul style="list-style-type: none"> • Has the accumulated personal dose exceeded 100mSv in the past 5 years? or • Has the accumulated personal dose in any single year exceeded 50mSv? If Answer = YES to either of the above, personal, occupations exposure limits have been exceeded, entry to be declined. | <input type="checkbox"/> | <input type="checkbox"/> | |

11 Obtain the key to the locked enclosure from the Permit Issuer. Y N NA

PRIOR TO COMMENCING TASK:

12 Complete a visual inspection of the radiation source from outside the restricted area to check the integrity of the lead enclosure. Include looking for any signs of damage or leakage. Y N NA

Is the integrity of the lead enclosure good?

If Answer = **NO** then **Stop work** and immediately report back to the Permit Issuer for the RSP (Radiation Safety Plan) emergency response to be enacted.

ON COMPLETION OF TASK:

13 Confirm enclosure is locked and key is returned to Permit Issuer. Y N NA

14 Was any entrant inside the restrictive area for greater than 8-hours for each day?

15 Complete the form below as a record of entries to restrictive area and update the 'Nuclear Source – Entry Register' in SharePoint.

Record of Entries to Restrictive Area					
Outline reason to enter the Enclosure below:					
<i>E.g., 3 Monthly inspection / Wipe test / Instrument calibration/ EEHA inspection /ORS Audit</i>					
Site	Date	Time of Entry	Time of Exit	Total hours	Individuals Name /Company