



## Area RSO Checklist for Radiological Workers Who Have Undergone a Nuclear Medicine Procedure

This form should be used in conjunction with RP Form #88, "Personnel Undergoing Nuclear Medicine Procedures". Follow the guidelines in FRCM Article 962. Additional information is contained on the back of this form. If you have any questions, contact the ES&H Section Dosimetry Program Manager.

- Inform individual's supervisor that the person is restricted from performing work radiological
  
- Confiscate the individual's dosimetry badge until the individual is released for radiological work. Inform the Dosimetry Program Manager.
  
- Instruct individual to take their used napkins, tissues, and discarded gum with them for home disposal.
  
- Instruct individual that there are no restrictions on lavatory use. However, care should be taken for items thrown into the regular trash receptacle. Disposal of napkins into the lavatory trash receptacle from drying hands after washing is acceptable.
  
- Confirm dose rates to co-workers near individual's workbench/desk are less than 0.25 mrem/hr the majority of the time.
  
- Using the information obtained on RP Form #88, estimate the date when the individual will be able to frisk/resume radiological work: \_\_\_\_\_
  
- Individual's dose (count) rate at 1 meter  
(1st reading): \_\_\_\_\_ Date: \_\_\_\_\_
  
- Individual's dose (count) rate at 1 meter  
(2nd reading): \_\_\_\_\_ Date: \_\_\_\_\_
  
- Individual's dose (count) rate at 1 meter  
(3rd reading): \_\_\_\_\_ Date: \_\_\_\_\_
  
- Verify individual will be able to frisk for contamination.
  
- Return dosimetry badge to the individual (if necessary), and inform the supervisor that he/she can return to his/her duties as a radiological worker.

## Procedure for Radiation Safety Personnel

1. Ensure confidentiality of the individual is maintained. Do not disclose private medical information to other workers. Questions regarding dose received by the individual from the nuclear medicine procedure should be directed to his/her physician.
2. Inform the person's supervisor that the person is restricted from performing work in Radiation Areas (because they cannot wear their dosimetry badge or frisk).
3. Ensure that an individual's dosimetry badge does not record medical exposure as an occupational exposure. **Confiscate the individual's dosimetry badge until the individual is released for radiological work.** Have the individual complete Radiation Physics Form # 88. After reviewing the information, forward this form to the Dosimetry Program Manager. If the dosimetry badge was inadvertently worn, collect the individual's dosimetry badge and return it to the Dosimetry Program Manager. The badge will be sent in for immediate processing. An exposure investigation may be necessary to subtract out the dose accumulated as a result of the nuclear medicine procedure.
4. Confirm dose rates to co-workers near individual's workbench/desk are less than 0.25 mrem/hr the majority of the time. In consultation with the person's supervisor, it may be advantageous to recommend that the person remain on sick leave in the hours following their nuclear medicine procedure if their dose rates are causing co-workers to receive greater than 0.25 mrem/hr and they cannot temporarily be assigned to a different work location.
5. Ensure that the individual's bodily fluids do not end up in the regular trash bins at Fermilab. Fermilab personnel who have had a nuclear medicine procedure should take all of their trash that may have bodily fluids, e.g., tissue and napkins, with them each day and dispose of it at home for as long as necessary.
6. Do not permit an individual to enter any enclosure or other area that requires a personnel frisk until their residual rates have decreased to the point where they can effectively perform a contamination frisk of themselves. Residual rates may persist for several days or weeks such that these persons will not be able to check themselves for contamination when they exit the accelerator enclosures. A rule of thumb is that it takes 7 effective half-lives for these radionuclides to decay so that the dose rates return to background levels.
7. Recommended dose rate survey schedule of personnel who have undergone a nuclear medicine procedure to evaluate the residual dose rates and confirm that they will be able to perform a contamination frisk before allowing them to enter an enclosure.
  - <sup>99m</sup>Tc: Check dose rate **at 1 meter** once daily for 3 days, then as needed with an Analyst (or Frisker).
  - <sup>201</sup>Tl: Check initial dose rate at **1 meter**, then once a week for three weeks until their dose rates have returned to background levels. The 4<sup>th</sup> week, verify that they will be able to frisk.
  - <sup>131</sup>I: Check initial dose rate at **1 meter**, then once a week until their external dose rate has returned to background levels.