

**CALVERT COUNTY—PUBLIC SAFETY  
DORCHESTER COUNTY - EMERGENCY MANAGEMENT AGENCY  
ST. MARY'S COUNTY - EMERGENCY SERVICES & TECHNOLOGY  
JUST IN TIME BRIEFING—EMERGENCY WORKER**



**1. Obtain Current Situation Status Report from OIC, Radiological Officer: concerning status of radiological release & wind direction**

**2. REVIEW RADIOLOGICAL EQUIPMENT & FORMS**

**Permanent Record Dosimeter (PRD)**

- Record serial # on Dosimetry / KI Report form
- Do not trade or exchange
- Wear on chest area of inner garment



**Direct Reading Dosimeter (DRD) RAD 60**

- Record serial # on Dosimetry / KI Report form
- Records exposure to Gamma radiation
- Must be zeroed by Rad Officer prior to use
- Sensitive to shock (DO NOT DROP)
- Wear on chest area of outer most garment
- Must be read every 30 minutes
- Record before and after readings on Dosimetry / KI Report form
- Notify Radiological Officer (RO) if you receive any increased readings
- Turn in at the end of shift



**Potassium Iodide (KI)**

- Thyroid blocking agent
- **TAKE ONLY WHEN DIRECTED BY HEALTH OFFICER**
- Take 2 pills per 24 hour period (2— 65mg pills = 130mg)
- Record date and time of dosage
- Presents possibility of allergic reaction to Iodine. Possible side effects may include swelling of the salivary glands or skin rashes and a “metallic” taste in the mouth. **IF IN DOUBT, OBTAIN MEDICAL GUIDANCE**



**Dosimetry / KI Report Form**

- Record PRD Serial #
- Record DRD Serial # and initial reading
- Record DRD reading every 30 minutes or when directed
- Record date and time of KI dosage
- Return completed form to RO



**3. WORKER CATEGORY**

You will be issued :

- 1 PRD
- 1 DRD (RAD 60)
- KI standard dosage
- 1 Dosimetry / KI Report Form per worker



**All Emergency Workers that are entering a location for life saving missions with anticipated to exceed 25 Rem will be given a special briefing. These missions will be voluntary.**

**Protective Action Guidelines for Emergency Workers:**

Dose Limit	Emergency Activity Performed	Condition
1 Rem (1000 mR)	All Activities	All activities during emergency
10Rem	Protecting Major Property	Lower dose not practical Requires County Approval
25 Rem	Lifesaving missions for large populations	Lower dose not practical Requires County Approval
> 25 Rem	Lifesaving missions for large populations	Only on a volunteer basis to person fully aware of risks. Requires County Approval

**Mission Limits \_\_\_\_\_ mR / Turn Back Limit \_\_\_\_\_ mR/Hr**

**TURN SHEET OVER →**

### 5. EXPOSURE RISKS

All Emergency Workers are to be briefed on the risks associated with exposure to radiation.

- To assure adequate protection of minors and the unborn during emergencies, the performance of emergency services should be limited to non-pregnant adults.
- Therefore, women who are pregnant or think they may be pregnant should be excused from performing duties.
- At known or anticipated exposures greater than 25 Rem, all male and female emergency workers of reproductive capacity must be advised of the possible long term effect on reproduction capability and the potential for genetic damage in their future children as well as potential damages to fetal exposure.
- During Recovery Operations, access to restricted zones is not recommended for pregnant women, except with full advisement of the risk to the fetus.
- Supplemental radiation exposure risk information is available from your local EOC.

### 6. EW RADIOLOGICAL BRIEFING SPECIAL MISSIONS

You may, under special conditions, exceed the 25 REM maximum exposure if the situation is of a major LIFESAVING nature, you have the approval of your supervisor, the County Radiological Officer and the County Health Officer. This would only be on a voluntary basis in addition to other restrictions.

In emergency situations that require personnel to search for and remove injured persons, or to prevent conditions that would probably injure personnel. Attempt to limit lifesaving exposures to 75 REM; however, there is no limit on lifesaving exposures as long as workers are briefed on the following conditions.

25 REM whole body in 1 day - no physiological changes are likely to be observed.

25 to 100 REM whole body - no impairment likely but some physiological changes, including possible temporary blood changes may occur. Medical observations should be required after exposure.

150 to 400 REM whole body - some physical impairment possible. Some lethal exposures possible  
Radiation levels can have serious effects on developing embryos. Women of child bearing age should talk to their doctors about the possibility of reproductive effects, prior to undertaking any Special Missions.

### 7. COMPLETION OF EMERGENCY WORKER DUTIES

All Emergency Workers are to report to their respective Emergency Worker Monitoring / Decontamination Stations or as directed by their Supervisor or OIC.

- All emergency workers are required to receive a thyroid screening in addition to the standard radiological monitoring process.
- Issued dosimetry, including PRDs and DRDs / electronic devices must be turned in to County RO.
- Final DRD readings should be documented on the Dosimetry / KI Report form and returned to the municipal RO.
- Verify your Emergency Worker Decon Site.  
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- Verify location of your local EOC.  
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- Verify location of your local alternate / back-up EOC if applicable.  
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### 8. ADDITIONAL INFORMATION

All questions concerning radiological safety and exposure should be directed to:

**First**

- Immediate Supervisor

**Second**

Calvert County EOC RAD Officer:  
(410) 535-1600 x2711

St. Mary's County EOC RAD Officer:  
(301) 475- 4200 x72164

Dorchester County EOC:  
(410)-228-1818

**Basic radiological safety / exposure information is provided in the County RERP as a reference.**

**All Emergency Workers are required to receive a yearly Radiological Safety and Procedure Training supplied by their County**