Overview of DHHS
Office of Radiological Health
Roles and Responsibilities

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Office of Radiological Health
X-Ray Radiation Sources
Radioactive Material Sources

IPX 2020
Cooper PWR
Protective Action
Recommendation
Evacuate to 2 miles all sectors
and 5 miles downwind,
Section F, G, H, A.
Shelter from 5-10 miles downwind,
Section F, G, H, A.

10 Mile EPZ Plume Phase Map

Boiling Water Reactor
EPA-400 Early/Emergency Phase Protective Action Guidance (PAG)

EDE (Immersion) + EDE (Deposition) + CDE (Inhalation) = TEDE (Whole Body)

- 1 – 5 rem
- 5 – 25 rem
- 50 – 250 rem

DHHS Recommendation: To GAR Evacuate Subareas 11, 14, 15

Already thinking about 50 mile IPZ during Plume Phase
The "R" Words

Restricted Zone: An area with controlled access from which the population has been relocated

Relocation: The removal of continued exclusion of people (households) from contaminated areas to avoid chronic radiation exposure

Return: The reoccupation of areas cleared for unrestricted residence or use

Reentry: Temporary entry into a restricted zone under controlled conditions

Recovery: The process of reducing radiation exposure rates and concentrations in the environment to acceptable levels for unconditional occupancy or use
Intermediate Phase EPA 400 PAG

Ingestion

<table>
<thead>
<tr>
<th></th>
<th>Preventative</th>
<th>Emergency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thyroid</td>
<td>1.5 rem</td>
<td>15 rem</td>
</tr>
<tr>
<td>Whole Body</td>
<td>0.5 rem</td>
<td>5 rem</td>
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</tbody>
</table>
Intermediate Phase EPA 400 PAG

Relocation

1st Year 2nd Year 50 Year

2 rem 0.5 rem 5 rem

Ingestion Sampling Plan Considerations

- Dairies
- Orchards and Berry Farms
- Honey Producers
- Field Crop Producers
- Fish and Wildlife
- Hay and Forage
- Fish

Game and Wildlife
- Non-traditional Ag products
- Hunting Season
- Migratory Animals

What is "in season" at the time?
- Fishing year around
- Deer
- Quail
- Raccoon
- Turtles
- Shrimp
- Doves & Geese
- Bear (fall & Nov)
- Morel Mushrooms (sprn)
- Early teal season (September 1)
- Minks & Clams
- More

Non-traditional Ag products and water are used for bait.

Water