

Nuke 101

San Luis Obispo City



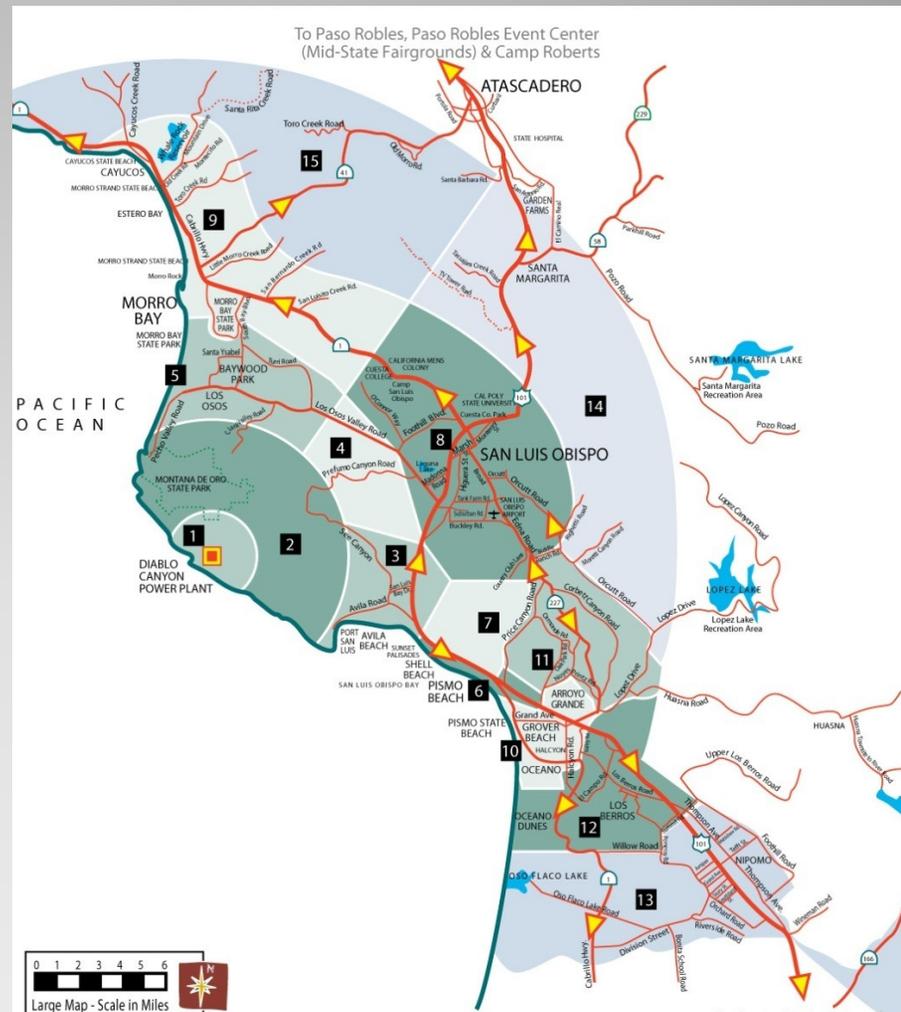
- Nuclear Power Plant Emergency Response Plan
(Every two years)
- San Luis Obispo City NPP-Specific Responsibilities
- Emergency Worker Exposure Control Equipment
- Radiation Basics

Today's Objectives

- FEMA and the State of CA require annual training for emergency workers within the Emergency Planning Zone
- OES responsible for offsite response planning and training

Why Are We Here Today?

- 18-22 Miles
- 12 PAZs established for planning and protective actions
- Ingestion pathway planning stretches out to 50 miles

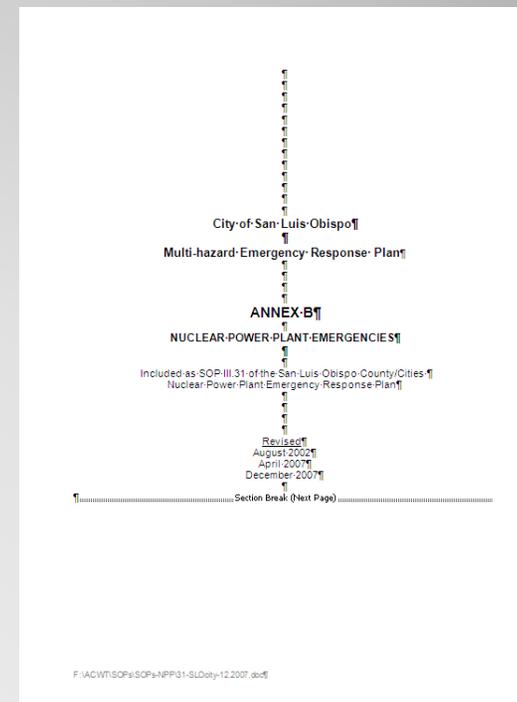


Emergency Planning Zone

All NPP roles and procedures are outlined in FEMA regulated procedures (NPP SOPs)

Those relevant to SLO City:

- SLO City- SOP 31
- Emergency Worker Exposure Control HP-11



SLO City SOP

- County EOC serves as ICP & EOC
- County Watch Commander will make notifications into SLO City Dispatch until EOCs are activated.
- City EOC activates at Alert classification
- County JIC will coordinate public information
- City will implement protective actions issued by County.

San Luis Obispo City Role

- Evacuation and Sheltering
- Traffic Management
- Route Alerting
- Special Needs
- Carless Collection
- EWEC

City of San Luis Obispo NPP Specific Responsibilities

- Implement evacuations or sheltering as ordered for PAZ 8
 - Including route alerting, special needs, carless collection
- Implement re-entry and return after evacuation



Evacuations and Sheltering

- Support CHP's traffic management plan
 - Evacuation of SLO City
 - Evacuations affecting SLO City
- Provide perimeter control as necessary
- Assist schools relocations



Traffic Management

- 131 sirens in the EPZ (13 in PAZ 8)
- Sirens are used when ACTION is necessary
- Can be used for NPP or other emergency
- Sirens signify to turn on a local radio or TV station

Early Warning System (EWS) Sirens & Route Alerting

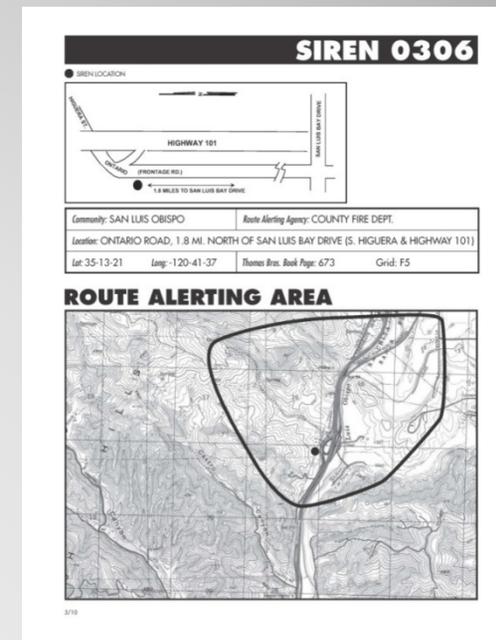
- 0812 – Highland Dr
- 0816 - Foothill Blvd x Rosita
- 0818 – Station #2
- 0820 - Slack St.
- 0824 – Phillips Lane
- 0826 – Pismo x Garden
- 0828 –August x Laurel
- 0830 – LOVR x Descanso
- 0832 – El Mercado
- 0834 –Orcutt x Johnson
- 0836 – LOVR x Madonna
- 0840 – Prado x S. Higuera
- 0844 – S. Higuera x Vachell



Sirens (in PAZ 8)

- Necessary when sirens have failed
- Directed by County EOC/Sheriff's Watch Commander
- Typically implemented by Police and Fire
- Verbal alert of Emergency Alert System activation
- Use as many resources as available
- Use map, assign areas
- Field staff should notify EOC when complete
- City EOC should notify County EOC/
Sheriff Watch Commander when complete.

Route Alerting



- Designated evacuation waiting areas for those who do not have transportation
- Intended for NPP emergencies only
- Only 'activated' in PAZs with evacuations
- County EOC will initiate through relevant agencies



Carless Collection Points

- SOP (or phone book) has location of collection points
- Identify if other agencies will assist (shared Law and Fire)
- Identify staff & vehicles available
- Assign points to available staff. Monitor points on regular basis
- Field staff should notify City EOC of waiting individuals
- County EOC will coordinate transportation.

Carless Collection Points

If you are asked to help...

- Laurel Lane Center
- Meadow Park
- Laguna Lake GC
- Vets Hall
- Mission Plaza
- Foothill Plaza
- Cal Poly – 3 locations
- Padre Plaza Shopping Center
- 3 others outside the city

Carless Collection Points- PAZ 8

- List of self registered, independent living special needs.
- Can be used for NPP or non-NPP emergencies
- Calls take place when evacuations are considered or ordered
- Phone calls evaluate evacuation status
- City's responsibility to get individuals to carless collection point or out of the area.
- County PW will arrange transportation from carless collection point.



Special Needs List

- If evacuations are ordered in PAZ 8...
- Identify staff to assist
- Locate Special Needs List
- Verify what location residents should evacuate to
- Call each resident to identify if they need evacuation assistance
- Provide transportation out of affected area or to carless collection point
- If transportation assistance is needed, work with County EOC

Special Needs Checks
What to do with it...



- EWEC Command Center will be established at SLO City EOC
- SLO City EWEC Command Center will ensure kits are issued, exposures are tracked and protective actions are relayed to SLO City emergency workers.
- SLO City will coordinate with EWEC staff at County EOC

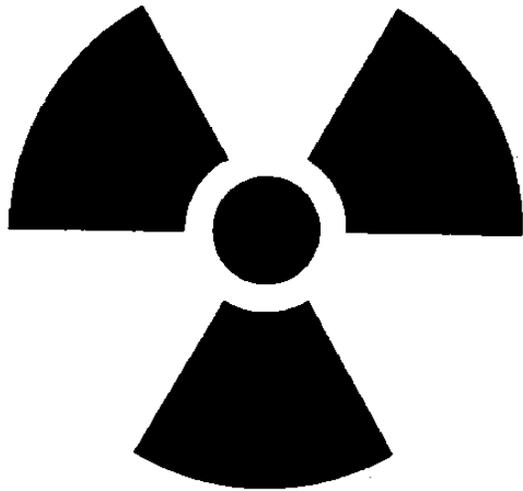
Emergency Worker Exposure Control (EWEC)

- Public School Relocation Centers: Nipomo High School and Paso Robles Event Center.
- Emergency Worker Monitoring and Decontamination Facility
 - Primary location: El Chorro Regional Park
- Public Evacuee Monitoring, Decontamination, and Reception Centers:
 - North- Camp Roberts
 - South- Santa Maria Fairpark

Other Information

EWEC

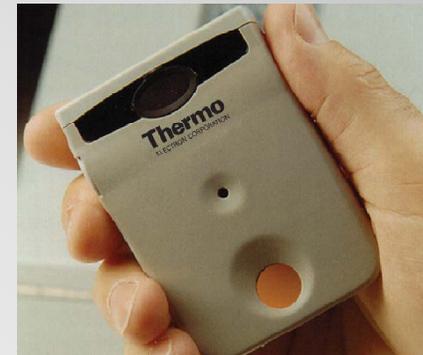
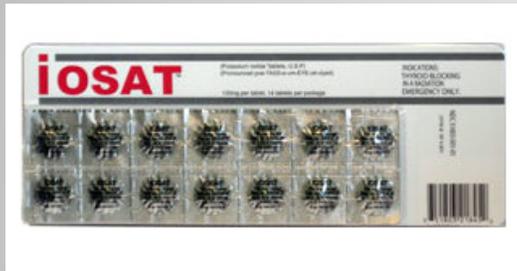
Emergency Worker Exposure Control



- San Luis Obispo has pre-staged EWEC Kits
- Enable emergency workers to monitor exposure
- County Public Health Department oversees all emergency worker exposure

EWEC - Emergency Worker Exposure Control

- Instructions, lanyards, etc.
- KI-Potassium Iodide tablets
- TLD -Thermoluminescent Dosimeter
- PED – Personal Electronic Dosimeter



Kit Contents

- Use directed by the County Health Officer
- Protects thyroid
- Contraindications: shellfish or iodine allergy, thyroid condition



KI – Potassium Iodide

- Keep with you for the **entire incident**
- Cannot be shared – legal record
- Wear on upper half of body
- Will be read by independent laboratory after incident concludes



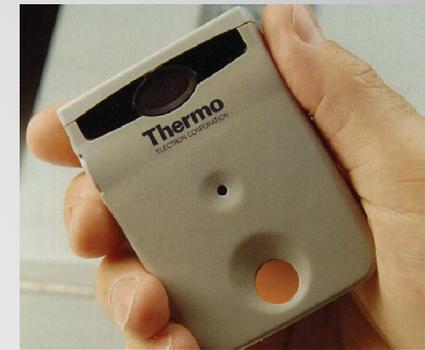
TLD - Thermoluminescent Dosimeter

- Wear while you are **on shift**
- Can be shared or used for area monitoring
- Provides audible alert and alarm
- Provides backup exposure record
- Track exposures with EWEC Command Center

PED -Personal Electronic Dosimeter



- Inform command center every 250 mrem
- Record readings on log card
- Pre-authorized to receive 1,000 mrem
- Do not exceed 1,000 mrem unless authorized by CHO



Exposure Limits

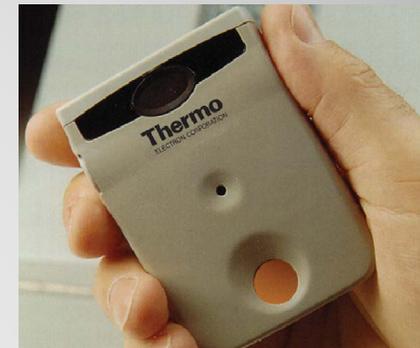
- Dose ALERT set at 750 mrem



- Dose ALARM set at 1000 mrem



PED Alerts





Exposure (mrem)	Health Effect	Time to Onset without treatment
5,000-10,000	Change in blood chemistry	
50,000	Nausea	Hours
55,000	Fatigue	
75,000	Vomiting, Hair loss	2-3 weeks
100,000	Hemorrhage	
1,000,000	Internal Bleeding, death	1-2 weeks
2,000,000	Loss of consciousness, death	Hours to days

http://www.epa.gov/rpdweb00/understand/health_effects.html

Health Effects of Radiation Exposure



Questions?

SLO County OES
County Government Center
1055 Monterey St. Rm D430
781-5011