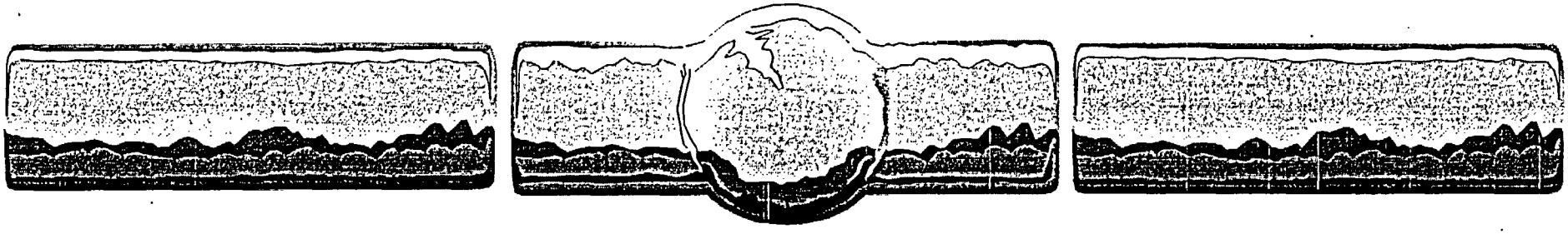
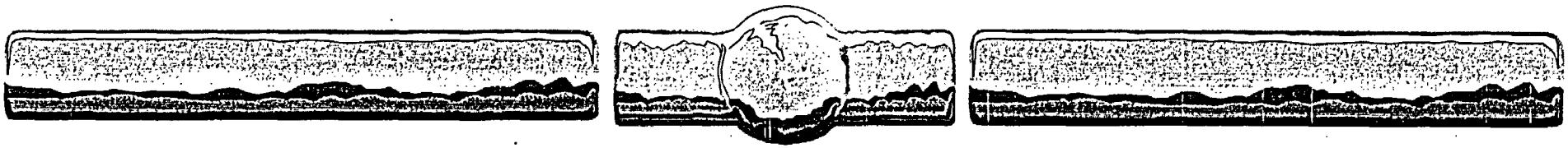


Nuclear Regulatory Commission

Augmented Inspection Team

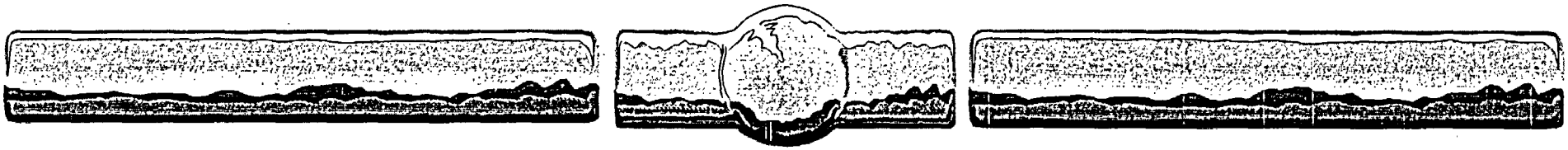
Exit Meeting with

Palo Verde Nuclear Generation Station



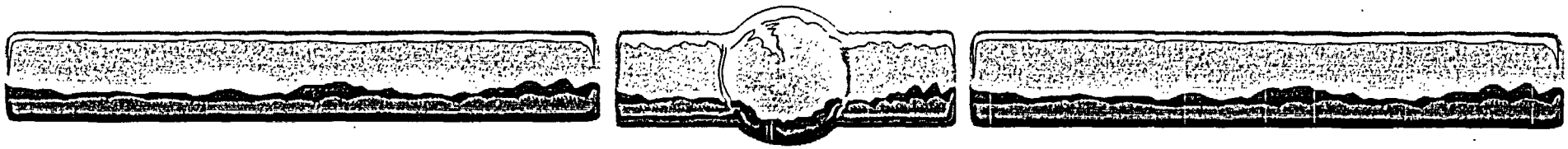
Inspection Charter

- Basis of Augmented Inspection
- Develop a complete sequence of events
- Assess performance of plant systems
- Assess adequacy of plant procedures



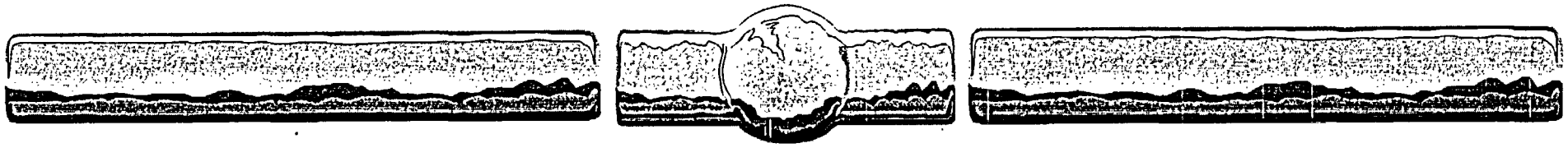
Inspection Charter

- Assess facility response to event
- Assess facilities determination of apparent cause
- Assess maintenance related contributions



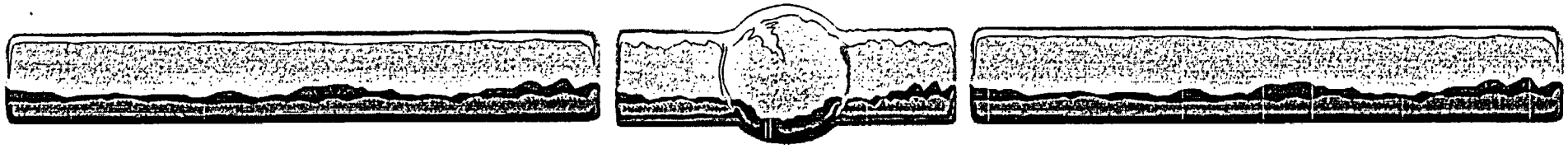
Inspection Charter

- Assess facility coordination of offsite activities
- Overall risk assessment of event



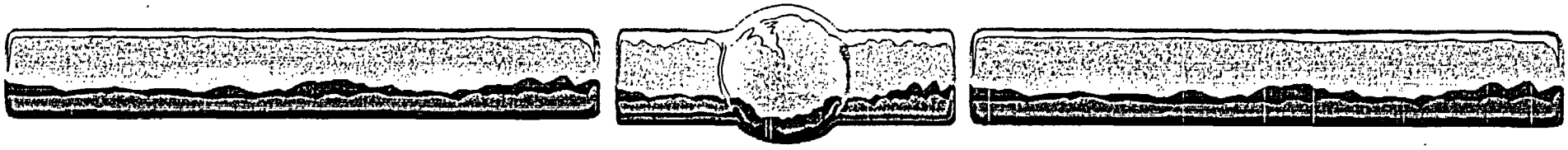
SEQUENCE OF EVENTS

- Fault Initiation
- Electrical Transmission and Grid



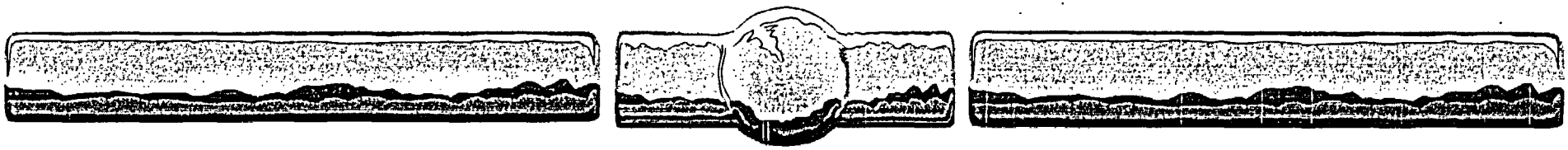
SEQUENCE OF EVENTS

- Plant Transients and Challenges
- Other Challenges



PERFORMANCE OF PLANT SYSTEMS

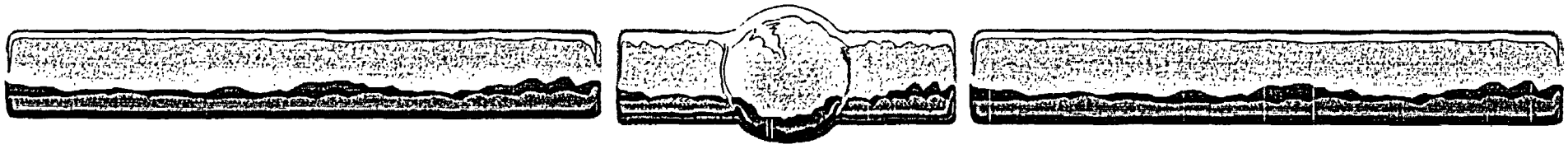
- Transmission system protection
- All three reactors were safely shut down
- Each unit was stabilized by operators



PERFORMANCE OF PLANT SYSTEMS

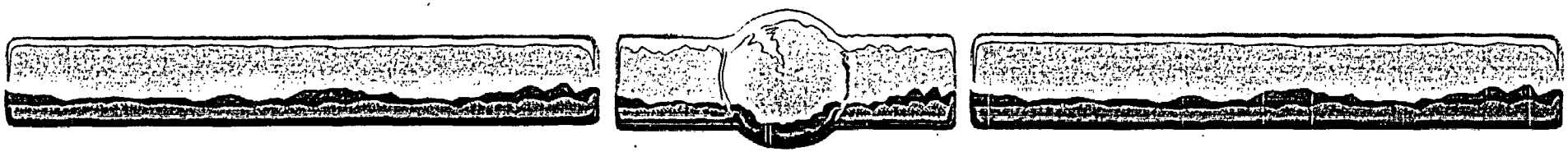
- Unit 2 Emergency Diesel Generator failure

- Other minor equipment problems noted during shutdown



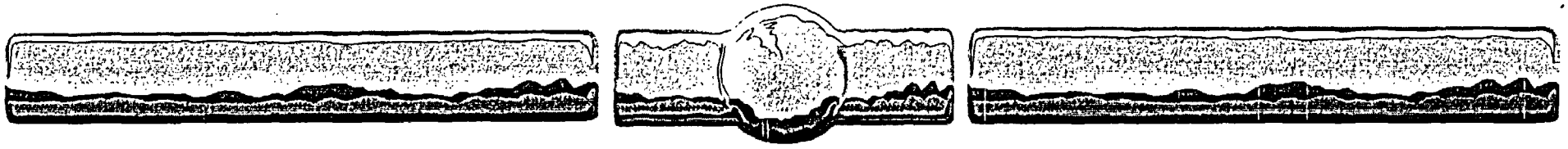
Plant Procedures

- Procedures used during event were generally acceptable
- Some issues noted



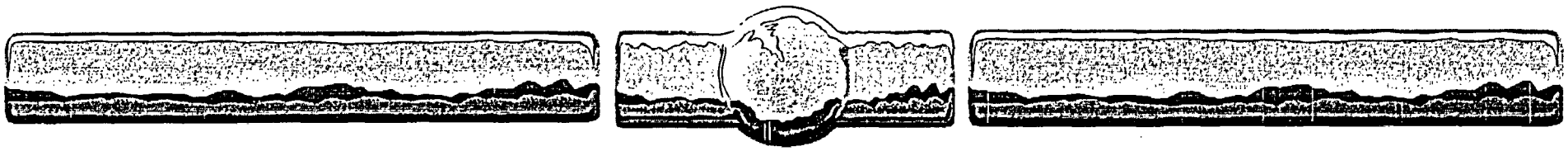
Facility Response

- Conduct of operations generally good
- Emergency response organization challenges
- Some other problems noted by the team



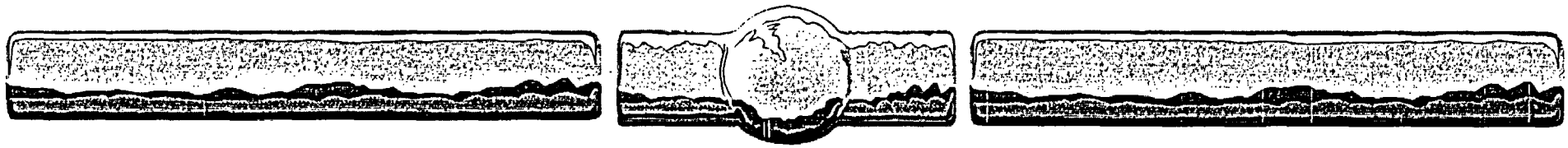
Apparent Causes

- Electrical fault isolation failure
- Transmission lines between Hassayampa and Palo Verde switchyard
- Unit 2 Emergency Diesel Generator failure
- Technical Support Center Emergency Diesel Generator failure
- Others



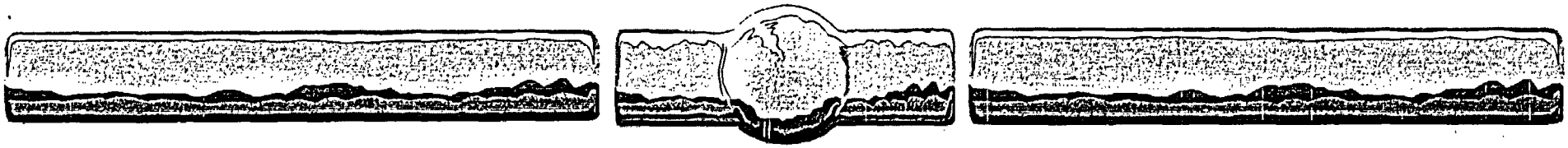
Maintenance Related Aspects

- Maintenance of switchyard and substation equipment good
- Implementation of facility maintenance processes



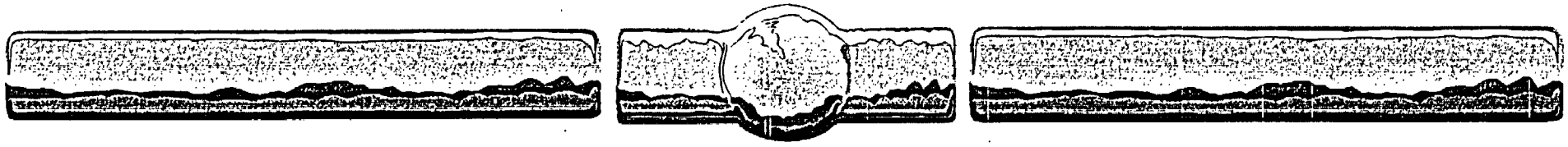
Off-Site Coordination

- Good coordination of actions following event
- Unrecognized design issue with Hassayampa to Palo Verde transmission line protection



Overall Risk Assessment

- Given the loss of approximately 5,500 MWe of electrical generation, the grid performed well
- Electrical power was restored in a timely manner



Overall Risk Assessment

- All three units were stabilized and placed in a safe shutdown mode of operation