

Safety Considerations

Conceptual Design for Palisades Nuclear Restart

1. Steam Generators:

- Clear inlet and outlet flow paths
- Accurate dimensioning and annotations for maintenance access
- Visual emphasis on containment zones and safe handling areas

2. Control Room Layout:

- Dual emergency exits placed symmetrically for immediate evacuation
- U-shaped operator desk allowing multi-point monitoring
- Display panels placed for optimal line-of-sight and minimized clutter
- Backup generator station positioned outside the control room boundary for redundancy

3. Emergency Cooling System:

- Dedicated overflow tank with clearly marked emergency lines
- Red dashed overflow lines to highlight emergency pathways
- Flow direction arrows and valve points indicated for operational clarity
- Separation of reactor flow and emergency overflow routes for safety integrity