| SEABROOK STATION | Containment Structure Mat Reinforcing [2 Sheets] | |
|----------------------|--|--|
| UPDATED FINAL SAFETY | | |
| ANALYSIS REPORT | Figure 3.8-1 Sh. 1 of 2 | |

| SEABROOK STATION | Containment Structure Mat Reinforcing [2 Sheets] | |
|----------------------|--|--|
| UPDATED FINAL SAFETY | | |
| ANALYSIS REPORT | Figure 3.8-1 Sh. 2 of 2 | |

| SEABROOK STATION UPDATED FINAL SAFETY | Containment Structure Ty | pical Reinforcing |
|--|--------------------------|-------------------|
| ANALYSIS REPORT | | Figure 3.8-2 |

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| SEABROOK STATION UPDATED FINAL SAFETY | Containment Structure Ec Reinforcing [2 Sheets] | quipment Hatch Typ | ical |
|--|--|--------------------|------------|
| ANALYSIS REPORT | | Figure 3.8-3 | Sh. 1 of 2 |

| SEABROOK STATION UPDATED FINAL SAFETY | Containment Structure Ec Reinforcing [2 Sheets] | juipment Hatch Typ | ical |
|--|--|--------------------|------------|
| ANALYSIS REPORT | | Figure 3.8-3 | Sh. 2 of 2 |

| SEABROOK STATION UPDATED FINAL SAFETY | Containment Structure Personnel Air Lock Typical Reinforcing [2 Sheets] | | |
|--|--|-------------------------|--|
| ANALYSIS REPORT | | Figure 3.8-4 Sh. 1 of 2 | |

| SEABROOK STATION UPDATED FINAL SAFETY | Containment Structure Personnel Air Lock Typical Reinforcing [2 Sheets] | | pical |
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| ANALYSIS REPORT | | Figure 3.8-4 | Sh. 2 of 2 |

| SEABROOK STATION UPDATED FINAL SAFETY | Containment Structure Li | ner Details [2 Sheets] |
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| ANALYSIS REPORT | | Figure 3.8-5 Sh. 1 of 2 |

| SEABROOK STATION | Containment Structure Liner Details [2 Sheets] | |
|----------------------|--|--|
| UPDATED FINAL SAFETY | | |
| ANALYSIS REPORT | Figure 3.8-5 Sh. 2 of 2 | |

| SEABROOK STATION UPDATED FINAL SAFETY | Containment Structure Re | einforcing at Penetrations |
|--|--------------------------|----------------------------|
| ANALYSIS REPORT | | Figure 3.8-6 |

| SEABROOK STATION UPDATED FINAL SAFETY | Containment Structure Do | ome Reinforcing |
|--|--------------------------|-----------------|
| ANALYSIS REPORT | | Figure 3.8-7 |



| SEABROOK STATION | Design Temperature Grad | lient through Contai | nment Wall |
|----------------------|-------------------------|----------------------|------------|
| UPDATED FINAL SAFETY | | _ | |
| ANALYSIS KEPORT | | Figure | 3.8-8 |



| SEABROOK STATION UPDATED FINAL SAFETY | Containment Pressure Tra | insients Following a | LOCA |
|--|--------------------------|----------------------|-------|
| ANALYSIS REPORT | | Figure | 3.8-9 |



| SEABROOK STATION | Containment Cylinder Lin | ner Temperature Tra | nsients Curve |
|----------------------|--------------------------|---------------------|---------------|
| UPDATED FINAL SAFETY | | _ | |
| ANALYSIS REPORT | | Figure | 3.8-10 |



| SEABROOK STATION UPDATED FINAL SAFETY | Containment Dome Liner Temperature Transients Curve | | ients Curve |
|--|---|--------|-------------|
| ANALYSIS REPORT | | Figure | 3.8-11 |



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| SEABROOK STATION UPDATED FINAL SAFETY | Axisymetric Modeling El | ements | |
|--|-------------------------|--------|--------|
| ANALYSIS REPORT | | Figure | 3.8-12 |



EQUIVALENT LAMINATED CONTAINMENT WALL



IDEALIZED MATERIAL MODEL

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CONCRETE CRACKING PLANES AND ASSOCIATED COORDINATE DIRECTIONS

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| SEABROOK STATION UPDATED FINAL SAFETY | Reinforced Concrete Idea | lization | |
|--|--------------------------|----------|--------|
| ANALYSIS KEPORT | | Figure | 3.8-13 |

TYPICAL SECTION THROUGH REINFORCED CONCRETE WALL



| SEABROOK STATION UPDATED FINAL SAFETY | Boundary Conditions for Sketch | Equipment Hatch A | nalysis - Model |
|--|-----------------------------------|-------------------|-----------------|
| ANALYSIS REPORT | | Figure | 3.8-14 |



| SEABROOK STATION UPDATED FINAL SAFETY | Shell Section Illustrating Computed Force and Moment Resultants | | |
|--|--|---------------|--|
| ANALYSIS REPORT | | Figure 3.8-15 | |



| SEABROOK STATION UPDATED FINAL SAFETY | Containment Axisymetric | Model | |
|--|-------------------------|--------|--------|
| ANALYSIS REPORT | | Figure | 3.8-16 |



| SEABROOK STATION UPDATED FINAL SAFETY | Three-Dimensional Finite Hatch Analysis | Element Model for | Equipment |
|--|--|-------------------|-----------|
| ANALYSIS REPORT | | Figure | 3.8-17 |

Rebar in Membrane Region From EI. 80' - 0" To EI. 119" -0"



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| SEABROOK STATION UPDATED FINAL SAFETY | Layered Cross Section M | odel for MARC-CD | C Element 22 |
|--|-------------------------|------------------|--------------|
| ANALYSIS REPORT | | Figure | 3.8-18 |



| SEABROOK STATION UPDATED FINAL SAFETY | Finite Element Model of | Containment Mat | |
|--|-------------------------|-----------------|--------|
| ANALYSIS REPORT | | Figure | 3.8-19 |

| SEABROOK STATION UPDATED FINAL SAFETY | Containment Structure Personnel Airlock | |
|--|---|---------------|
| ANALYSIS REPORT | | Figure 3.8-20 |

| SEABROOK STATION | Containment Structure Equipment Hatch with Personnel | |
|----------------------|--|---------------|
| UPDATED FINAL SAFETY | Airlock | |
| ANALYSIS REPORT | | Figure 3.8-21 |

| SEABROOK STATION UPDATED FINAL SAFETY | Typical High Energy Pipi | ng Penetration |
|--|--------------------------|----------------|
| ANALYSIS REPORT | | Figure 3.8-22 |

| SEABROOK STATION UPDATED FINAL SAFETY | Typical Moderate Energy | Piping Penetration |
|--|-------------------------|--------------------|
| ANALYSIS REPORT | | Figure 3.8-23 |



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| SEABROOK STATION UPDATED FINAL SAFETY | Typical Electrical Penetra | tion | |
|--|----------------------------|--------|--------|
| ANALYSIS REPORT | | Figure | 3.8-24 |

| SEABROOK STATION UPDATED FINAL SAFETY | Typical Ventilation Penet | ration |
|--|---------------------------|---------------|
| ANALYSIS REPORT | | Figure 3.8-25 |





CLOSURE PLATE -

| SEABROOK STATION UPDATED FINAL SAFETY | Typical Ventilation Penet | ration | |
|--|---------------------------|--------|--------|
| ANALYSIS REPORT | | Figure | 3.8-26 |



| SEABROOK STATION UPDATED FINAL SAFETY | Electrical Penetration Seal Temperature Response Following 0.84 ft ² Split Rupture at 75% Power | | |
|--|--|--------|--------|
| ANALYSIS REPORT | | Figure | 3.8-27 |



| SEABROOK STATION UPDATED FINAL SAFETY | Reactor Vessel Lateral Su | ipport | |
|--|---------------------------|--------|--------|
| ANALYSIS REPORT | | Figure | 3.8-28 |

| SEABROOK STATION | Primary Shield Wall Main Reinforcement and Anchorage | |
|----------------------|--|---------------|
| UPDATED FINAL SAFETY | System | |
| ANALYSIS REPORT | | Figure 3.8-29 |



SECTION THROUGH ANCHOR BOLTS

NOTE: CLAMP PLATES AND KICK-BACK PLATES ARE ALTERNATELY SPACED 9" CENTER TO CENTER.

| SEABROOK STATION | Design of Kick-Back Plat | re, Clamp Plate, Ba | se Plate and |
|----------------------|---------------------------|---------------------|--------------|
| UPDATED FINAL SAFETY | Anchor Bolts for Polar Cr | rane | |
| ANALYSIS REPORT | | Figure | 3.8-30 |

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| SEABROOK STATION UPDATED FINAL SAFETY | Control Room Makeup A | ir Intake Structure East and West |
|--|-----------------------|-----------------------------------|
| ANALYSIS REPORT | | Figure 3.8-31 |

| SEABROOK STATION UPDATED FINAL SAFETY | Enclosure for Condensate | Storage Tank |
|--|--------------------------|---------------|
| ANALYSIS REPORT | | Figure 3.8-32 |

| SEABROOK STATION UPDATED FINAL SAFETY | Pipe Tunnels (Typical) | |
|--|------------------------|---------------|
| ANALYSIS KEPORT | | Figure 3.8-33 |

| SEABROOK STATION UPDATED FINAL SAFETY | Safety-Related Electrical Section | Duct Banks - Typical Cross |
|--|--------------------------------------|----------------------------|
| ANALYSIS REPORT | | Figure 3.8-34 |

| SEABROOK STATION UPDATED FINAL SAFETY | Typical Safety-Related El | lectrical Manholes |
|--|---------------------------|--------------------|
| ANALYSIS REPORT | | Figure 3.8-35 |

| SEABROOK STATION UPDATED FINAL SAFETY | Typical Reinforcing Deta | il at Base Slab and Wall |
|--|--------------------------|--------------------------|
| ANALYSIS REPORT | | Figure 3.8-36 |



| SEABROOK STATION UPDATED FINAL SAFETY | Service Water Pipe Acces Precast Roof Option | ss Vault Concrete P | lan & Sections |
|--|---|---------------------|----------------|
| ANALYSIS REPORT | | Figure | 3.8-37 |



| SEABROOK STATION | Reactor Coolant Loop Support System, Dynamic Structural | | |
|----------------------|---|--------|----------|
| UPDATED FINAL SAFETY | Model | | |
| ANALYSIS REPORT | | Figure | 3.9(N)-1 |



| SEABROOK STATION UPDATED FINAL SAFETY | Through-Wall Thermal G | radients | |
|--|------------------------|----------|----------|
| ANALYSIS REPORT | | Figure | 3.9(N)-2 |



| SEABROOK STATION UPDATED FINAL SAFETY | Control Rod Drive Mecha | anism | |
|--|-------------------------|--------|----------|
| ANALYSIS REPORT | | Figure | 3.9(N)-3 |



| SEABROOK STATION UPDATED FINAL SAFETY | Control Rod Drive Mecha | nism Schematic | |
|--|-------------------------|----------------|----------|
| ANALYSIS REPORT | | Figure | 3.9(N)-4 |



| SEABROOK STATION UPDATED FINAL SAFETY | Nominal Latch Clearance at Minimum and Maximum Temperature | | Maximum |
|--|---|--------|----------|
| ANALYSIS REPORT | | Figure | 3.9(N)-5 |



| SEABROOK STATION UPDATED FINAL SAFETY | Control Rod Drive Mecha Effect | anism Latch Cleara | ince Thermal |
|--|-----------------------------------|--------------------|--------------|
| ANALYSIS REPORT | | Figure | 3.9(N)-6 |

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| SEABROOK STATION UPDATED FINAL SAFETY | Lower Core Support Asse | embly (Core Barre | l Assembly) |
|--|-------------------------|-------------------|-------------|
| ANALYSIS REPORT | | Figure | 3.9(N)-7 |



| SEABROOK STATION | Upper Core Support Structure | | | |
|----------------------|------------------------------|--------|----------|--|
| UPDATED FINAL SAFETY | | | | |
| ANALYSIS REPORT | | Figure | 3.9(N)-8 | |



| SEABROOK STATION | Plan View of Upper Core Support Structure | | | |
|----------------------|---|--------|----------|--|
| UPDATED FINAL SAFETY | | | | |
| ANALYSIS REPORT | | Figure | 3.9(N)-9 | |