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| **CURRENT CODE** | **PROPOSED REVISION** |
| **CC-3535 Concrete Crack Control**   1. When an expected crack formation is so located that critical elements of the containment, such as anchor zone concrete, buttresses, ring girders, and large opening edges, may be weakened, bonded nonprestressed reinforcement shall be provided to carry the total tensile force in the concrete. 2. Nonprestressed reinforcement shall be provided in the containment shell to control surface and membrane cracking from the effects of shrinkage, temperature, and membrane tension. The area of such reinforcement in each direction at each face of the concrete shall be a minimum of   0.0020 times the gross cross‐sectional  area of the section. This requirement may  be met in whole or in part by reinforcement otherwise required to resist calculated loads. An integral steel liner, if provided, may be included to satisfy the requirement for inside face reinforcement. Reinforcing bars considered as face reinforcement  shall not be more than one‐fifth of the total  section thickness from the concrete face.  (c) For basemat structures, the ratio of nonprestressed reinforcement area to gross concrete area shall not be less than 0.0018 in each direction unless the area of reinforcement provided at each face is at least one-third greater than that required by analysis.  Nonprestressed reinforcement for crack control shall not be spaced farther apart than 18 in (450 mm).  *[Note:* Where reinforcement with yield stress exceeding 60,000 psi (420 MPa) is used, specified ratios should be multiplied by (60,000/fy).] | **CC-3535 Concrete Crack Control**   1. When an expected crack formation is so located that critical elements of the containment, such as anchor zone concrete, buttresses, ring girders, and large opening edges, may be weakened, bonded nonprestressed reinforcement shall be provided to carry the total tensile force in the concrete. 2. Nonprestressed reinforcement shall be provided in the containment shell to control surface and membrane cracking from the effects of shrinkage, temperature, and membrane tension. The area of such reinforcement in each direction at each face of the concrete shall be a minimum of   0.0020 times the gross cross‐sectional  area of the section. This requirement may  be met in whole or in part by reinforcement otherwise required to resist calculated loads. An integral steel liner, if provided, may be included to satisfy the requirement for inside face reinforcement. Reinforcing bars considered as face reinforcement  shall not be more than one‐fifth of the total  section thickness from the concrete face.  (c) For basemat structures, the ratio of nonprestressed reinforcement area to gross concrete area shall not be less than 0.0018 in each direction unless the area of reinforcement provided at each face is at least one-third greater than that required by analysis.  Nonprestressed reinforcement for crack control shall not be spaced farther apart than 18 in (450 mm).  *[Note:* Where reinforcement with yield stress exceeding 60,000 psi (420 MPa) is used, specified ratios should be multiplied by (60,000 psi/fy) or (420 MPa/fy).] |