

G. MARKED-UP TECHNICAL SPECIFICATION PAGES

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DEFINITIONS

CORE OPERATING LIMITS REPORT

1.9a The CORE OPERATING LIMITS REPORT is the unit-specific document that provides core operating limits for the current operating reload cycle. These cycle-specific core operating limits shall be determined for each reload cycle in accordance with Technical Specification 6.9.1. Plant operation within these operating limits is addressed in individual specifications.

DOSE EQUIVALENT I-131

1.10 DOSE EQUIVALENT I-131 shall be that concentration of I-131 (microcuries/gram) which alone would produce the same thyroid dose as the quantity and isotopic mixture of I-131, I-132, I-133, I-134 and I-135 actually present. The thyroid dose conversion factors used for this calculation shall be those listed in Table III of TID-14844, "Calculation of Distance Factors for Power and Test Reactor Sites."

ICRP-30, Supplement to Part 1, page 192-212, Table titled, "Committed Dose Equivalent in Target Organs or Tissues per Intake of Unit Activity."

E - AVERAGE DISINTEGRATION ENERGY

1.11 \bar{E} shall be the average (weighted in proportion to the concentration of each radionuclide in the reactor coolant at the time of sampling) of the sum of the average beta and gamma energies per disintegration (in MeV) for isotopes, other than iodines, with half-lives greater than 15 minutes, making up at least 95% of the total noniodine activity in the coolant.

ENGINEERED SAFETY FEATURES RESPONSE TIME

1.12 The ENGINEERED SAFETY FEATURES RESPONSE TIME shall be that time interval from when the monitored parameter exceeds its ESF actuation setpoint at the channel sensor until the ESF equipment is capable of performing its safety function (i.e., the valves travel to their required positions, pump discharge pressures reach their required values, etc.). Times shall include diesel generator starting and sequence loading delays where applicable.

FREQUENCY NOTATION

1.13 The FREQUENCY NOTATION specified for the performance of Surveillance Requirements shall correspond to the intervals defined in Table 1.1.

GASEOUS RADWASTE SYSTEM

1.14 A GASEOUS RADWASTE SYSTEM shall be any system designed and installed to reduce radioactive gaseous effluents by collecting primary coolant system offgases from the primary system and providing for delay or holdup for the purpose of reducing the total radioactivity prior to release to the environment.

1.15 IDENTIFIED LEAKAGE shall be:

- a. Leakage into closed systems, other than reactor coolant pump controlled bleed-off flow, such as pump seal or valve packing leaks that are captured and conducted to a sump or collecting tank, or
- b. Leakage into the containment atmosphere from sources that are both specifically located and known either not to interfere with the operation of leakage detection systems or not to be PRESSURE BOUNDARY LEAKAGE, or
- c. Reactor Coolant System leakage through a steam generator to the secondary system.



POWER DISTRIBUTION LIMITS

3/4.2.8 PRESSURIZER PRESSURE

LIMITING CONDITION FOR OPERATION

3.2.8 The pressurizer pressure shall be maintained between ²¹³⁰~~2025~~ psia and ²²⁹⁵~~2300~~ psia.

APPLICABILITY: MODES 1 and 2.

ACTION:

With the pressurizer pressure outside its above limits, restore the pressure to within its limit within 2 hours or be in at least HOT STANDBY within the next 6 hours.

SURVEILLANCE REQUIREMENTS

4.2.8 The pressurizer pressure shall be determined to be within its limit at least once per 12 hours.

POWER DISTRIBUTION LIMITS

BASES-

3/4.2.5 RCS FLOW RATE

This specification is provided to ensure that the actual RCS total flow rate is maintained at or above the minimum value used in the safety analyses. The minimum value used in the safety analyses is 95% of the design flow rate (164.0×10^6 lbm/hr) or 155.8×10^6 lbm/hr. The actual RCS flow rate is determined by direct measurement and an uncertainty associated with that measurement is considered when comparing actual RCS flow rate to the minimum required value of 155.8×10^6 lbm/hr.

3/4.2.6 REACTOR COOLANT COLD LEG TEMPERATURE

This specification is provided to ensure that the actual value of reactor coolant cold leg temperature is maintained within the range of values used in the safety analyses.

3/4.2.7 AXIAL SHAPE INDEX

This specification is provided to ensure that the actual value of the core average AXIAL SHAPE INDEX is maintained within the range of values used in the safety analyses.

3/4.2.8 PRESSURIZER PRESSURE

This specification is provided to ensure that the actual value of pressurizer pressure is maintained within the range of values used in the safety analyses. The values for the pressurizer pressure LCO are,

indicated values and include consideration of instrument uncertainties.

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- c. Reactor Coolant System leakage through a steam generator to the secondary system.

1. The first part of the document is a list of names and addresses of the members of the committee.

POWER DISTRIBUTION LIMITS

3/4.2.8 PRESSURIZER PRESSURE

LIMITING CONDITION FOR OPERATION

3.2.8 The pressurizer pressure shall be maintained between ²¹³⁰~~2025~~ psia and ~~2300~~
2295 psia.

APPLICABILITY: MODES 1 and 2*.

ACTION:

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*See Special Test Exception 3.10.5

POWER DISTRIBUTION LIMITS

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73. 2088-2089 74. 2090-2091 75. 2092-2093 76. 2094-2095 77. 2096-2097 78. 2098-2099 79. 2100-2101 80. 2102-2103 81. 2104-2105 82. 2106-2107 83. 2108-2109 84. 2110-2111 85. 2112-2113 86. 2114-2115 87. 2116-2117 88. 2118-2119 89. 2120-2121 90. 2122-2123 91. 2124-2125 92. 2126-2127 93. 2128-2129 94. 2130-2131 95. 2132-2133 96. 2134-2135 97. 2136-2137 98. 2138-2139 99. 2140-2141 100. 2142-2143 101. 2144-2145 102. 2146-2147 103. 2148-2149 104. 2150-2151 105. 2152-2153 106. 2154-2155 107. 2156-2157 108. 2158-2159 109. 2160-2161 110. 2162-2163 111. 2164-2165 112. 2166-2167 113. 2168-2169 114. 2170-2171 115. 2172-2173 116. 2174-2175 117. 2176-2177 118. 2178-2179 119. 2180-2181 120. 2182-2183 121. 2184-2185 122. 2186-2187 123. 2188-2189 124. 2190-2191 125. 2192-2193 126. 2194-2195 127. 2196-2197 128. 2198-2199 129. 2200-2201 130. 2202-2203 131. 2204-2205 132. 2206-2207 133. 2208-2209 134. 2210-2211 135. 2212-2213 136. 2214-2215 137. 2216-2217 138. 2218-2219 139. 2220-2221 140. 2222-2223 141. 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3288-3289 674. 3290-3291 675. 3292-3293 676. 3294-3295 677. 3296-3297 678. 3298-3299 679. 3300-3301 680. 3302-3303 681. 3304-3305 682. 3306-3307 683. 3308-3309 684. 3310-3311 685. 3312-3313 686. 3314-3315 687. 3316-3317 688. 3318-3319 689. 3320-3321 690. 3322-3323 691. 3324-3325 692. 3326-3327 693. 3328-3329 694. 3330-3331 695. 3332-3333 696. 3334-3335 697. 3336-3337 698. 3338-3339 699. 3340-3341 700. 3342-3343 701. 3344-3345 702. 3346-3347 703. 3348-3349 704. 3350-3351 705. 3352-3353 706. 3354-3355 707. 3356-3357 708. 3358-3359 709. 3360-3361 710. 3362-3363 711. 3364-3365 712. 3366-3367 713. 3368-3369 714. 3370-3371 715. 3372-3373 716. 3374-3375 717. 3376-3377 718. 3378-3379 719. 3380-3381 720. 3382-3383 721. 3384-3385 722. 3386-3387 723. 3388-3389 724. 3390-3391 725. 3392-3393 726. 3394-3395 727. 3396-3397 728. 3398-3399 729. 3400-3401 730. 3402-3403 731. 3404-3405 732. 3406-3407 733. 3408-3409 734. 3410-3411 735. 3412-3413 736. 3414-3415 737. 3416-3417 738. 3418-3419 739. 3420-3421 740. 3422-3423 741. 3424-3425 742. 3426-3427 743. 3428-3429 744. 3430-3431 745. 3432-3433 746. 3434-3435 747. 3436-3437 748. 3438-3439 749. 3440-3441 750. 3442-3443 751. 3444-3445 752. 3446-3447 753. 3448-3449 754. 3450-3451 755. 3452-3453 756. 3454-3455 757. 3456-3457 758. 3458-3459 759. 3460-3461 760. 3462-3463 761. 3464-3465 762. 3466-3467 763. 3468-3469 764. 3470-3471 765. 3472-3473 766. 3474-3475 767. 3476-3477 768. 3478-3479 769. 3480-3481 770. 3482-3483 771. 3484-3485 772. 3486-3487 773. 3488-3489 774. 3490-3491 775. 3492-3493 776. 3494-3495 777. 3496-3497 778. 3498-3499 779. 3500-3501 780. 3502-3503 781. 3504-3505 782. 3506-3507 783. 3508-3509 784. 3510-3511 785. 3512-3513 786. 3514-3515 787. 3516-3517 788. 3518-3519 789. 3520-3521 790. 3522-3523 791. 3524-3525 792. 3526-3527 793. 3528-3529 794. 3530-3531 795. 3532-3533 796. 3534-3535 797. 3536-3537 798. 3538-3539 799. 3540-3541 800. 3542-3543 801. 3544-3545 802. 3546-3547 803. 3548-3549 804. 3550-3551 805. 3552-3553 806. 3554-3555 807. 3556-3557 808. 3558-3559 809. 3560-3561 810. 3562-3563 811. 3564-3565 812. 3566-3567 813. 3568-3569 814. 3570-3571 815. 3572-3573 816. 3574-3575 817. 3576-3577 818. 3578-3579 819. 3580-3581 820. 3582-3583 821. 3584-3585 822. 3586-3587 823. 3588-3589 824. 3590-3591 825. 3592-3593 826. 3594-3595 827. 3596-3597 828. 3598-3599 829. 3600-3601 830. 3602-3603 831. 3604-3605

POWER DISTRIBUTION LIMITS

3/4.2.8 PRESSURIZER PRESSURE

LIMITING CONDITION FOR OPERATION

3.2.8 The pressurizer pressure shall be maintained between ²¹³⁰~~2025~~ psia and ~~2300~~²²⁹⁵ psia.

APPLICABILITY: MODES 1 and 2.

ACTION:

With the pressurizer pressure outside its above limits, restore the pressure to within its limit within 2 hours or be in at least HOT STANDBY within the next 6 hours.

SURVEILLANCE REQUIREMENTS

4.2.8 The pressurizer pressure shall be determined to be within its limit at least once per 12 hours.

POWER DISTRIBUTION LIMITS

BASES

3/4.2.5 RCS FLOW RATE

This specification is provided to ensure that the actual RCS total flow rate is maintained at or above the minimum value used in the safety analyses.

The minimum value used in the safety analysis is 95% of the design flow rate (164.0×10^6 lbm/hr) or 155.8×10^6 lbm/hr. The actual RCS flow rate is determined by direct measurement and an uncertainty associated with that measurement is considered when comparing actual RCS flow rate to the minimum required value of 155.8×10^6 lbm/hr.

3/4.2.6 REACTOR COOLANT COLD LEG TEMPERATURE

This specification is provided to ensure that the actual value of reactor coolant cold leg temperature is maintained within the range of values used in the safety analyses.

3/4.2.7 AXIAL SHAPE INDEX

This specification is provided to ensure that the actual value of the core average AXIAL SHAPE INDEX is maintained within the range of values used in the safety analyses.

3/4.2.8 PRESSURIZER PRESSURE

This specification is provided to ensure that the actual value of pressurizer pressure is maintained within the range of values used in the safety analyses. The values for the pressurizer pressure LCO are indicated values and include consideration of instrument uncertainties.

