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REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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 FACIL:50-250 Turkey Point Plant, Unit 3, Florida Power and Light C 05000250
 50-251 Turkey Point Plant, Unit 4, Florida Power and Light C 05000251

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SUBJECT: Responds to NRC 900524 request re emergency power sys enhancement project.

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U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
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Gentlemen:

Re: Turkey Point Units 3 and 4
Docket Nos. 50-250 and 50-251
Emergency Power System Enhancement Project

The attached information is provided in response to an NRC request made during a conference call on May 24, 1990.

If you have any further questions, please contact us.

Very truly yours,


K. N. Harris
Vice President
Turkey Point Plant Nuclear

KNH\DRP\TCG\rat

attachment

cc: Stewart D. Ebnetter, Regional Administrator, Region II, USNRC
Senior Resident Inspector, USNRC, Turkey Point Plant

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On May 24, 1990 the NRC requested additional information on the Emergency Power System Enhancement Project with respect to code issues. The following provides responses to the questions posed by the NRC.

- (1) What piping codes are used for system and components associated with the emergency diesel engine?
- (2) What allowables are used for the safe shutdown earthquake loads associated with safety related piping and components supplied under ANSI B31.1 (1986)?

Per ANSI B31.1 (1986) paragraphs 102.2.4, 102.3.3 and 104.8.2, a stress allowable of $1.2 S^h$ has been used.

TABLE 1

Piping Codes for Emergency Diesel Engine Systems

| System | Safety Classification | Seismic Category | EDG Skid Piping & Components | Offskid Piping (Design) | Offskid Piping (Installation) | Offskid Components (Design) | Offskid Components (Installation) |
|---|-----------------------|------------------|------------------------------|-------------------------|-------------------------------|---|-----------------------------------|
| Starting Air System | Safety Related | I | B31.1 ¹ | ASME III CL 3 | B31.1 | ASME III CL 3 | B31.1 |
| Air Intake System | Safety Related | I | AISC ² | N/A | N/A | N/A | N/A |
| Exhaust System | Safety Related | I | B31.1 ¹ | B31.1 ³ | B31.1 | B31.1 ⁴ | B31.1 |
| Cooling Water System | Safety Related | I | B31.1 ¹ | ASME III CL 3 | B31.1 | ASME VIII ^{5,6} | B31.1 |
| Lube Oil System | Safety Related | I | B31.1 ¹ | N/A | N/A | N/A | N/A |
| Fuel Oil System | Safety Related | I | B31.1 ¹ | ASME III CL 3 | B31.1 | ASME III CL 3 (ASME VIII: Diesel Oil Storage Tank) ⁷ | B31.1 |
| Demineralized Water System ⁸ | Non-Safety Related | II | N/A | B31.1 | B31.1 | B31.1 | B31.1 |
| Service Air System ⁸ | Non-Safety Related | II | N/A | B31.1 | B31.1 | B31.1 | B31.1 |

CODE DATE ANSI B31.1 (1986)
 ASME Section III (1983 with summer 1984 addenda)
 ASME Section VIII (1986)
 AISC (1980 8th Edition)

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Notes for Table 1

Notes

- (1) EDG supplier's standard design.
- (2) EDG suppliers's standard design. Air Intake System consists of a short section of ductwork and filter assembly.
- (3) ANSI B31.1 selected for material compatibility with skid piping and silencer.
- (4) ASME III silencer not available.
- (5) ASME radiator not available.
- (6) ASME VIII surge tank is the EDG supplier's standard design.
- (7) ASME VIII diesel oil storage tank is acceptable per paragraph 7.4 of ANSI N-195 (1976) and RG 1.137 (1979).
- (8) System provides no safety function; used for maintenance only.

