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IESIGN FEATURES

5.1 SITE

EXCLUSION AREA

as defined in OCFR Part 100.

5.1.1 The exclusion area is shown on Figure 5.1-1.

LOW POPULATION ZONE

ascietioned in IOCFR Part IDD.

5.1.2 The low population zone is shown on Figure 5.1-2. are defined in Technical io, specifications section 1.0,

SITE BOUNDARY

Definitions, 5.1.3 The UNRESTRICTED AREA and SITE BOUNDARY for radioactive liquid effluents is shown on Figure 5.1-3. The UNRESTRICTED AREA and SITE BOUNDARY for radioactive gaseous effluents is shown on Figure 5.1-4.

5.2 CONTAINMENT

CONFIGURATION

5.2.1 The containment structure is comprised of a steel containment vessel, having the snape of a right circular cylinder with a hemispherical dome and ellipisodal bottom, surrounded by a reinforced concrete shield building.

5.2.1.1 CONTAINMENT VESSEL

- a. Nominal inside diameter = 130 feet.
- Nominal inside height = 285.5 feet.
- . Net free volume = 2.834 x 10⁶ cubic feet.
- Nominal thickness of vessel walls 1 1/2 inches.
- Nominal thickness of vessel dome 13/16 inches.
- f. Nominal thickness of vessel bot om 1 1/2 inches.

5.2.1.2 SHIELD BUILDING

a. Minimum annular space = 4.5 feet.

b. Annulus nominal volume = 678,700 cubic feet.

c. Nominal outside height (measured from top of foundation base to the top of the dome) = 279.5 feet.

d. Nominal inside diameter = 139.25 feet.

e. Cylinder wall minimum thickness = 2.5 feet. f. Dome minimum thickness = 2.0 feet.

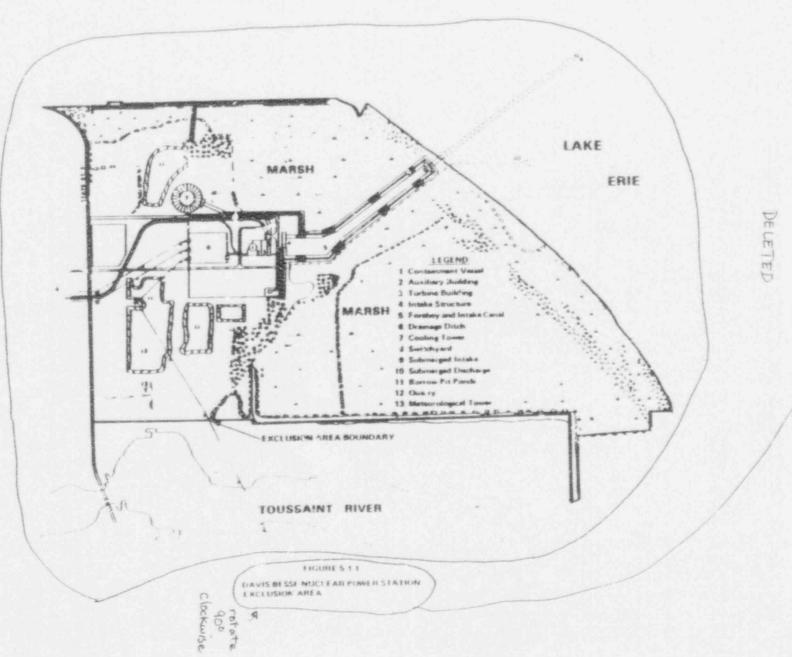
g. Dome inside radius = 125.29 feet.

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DAVIS-BESSE, UNIT 1

5-1

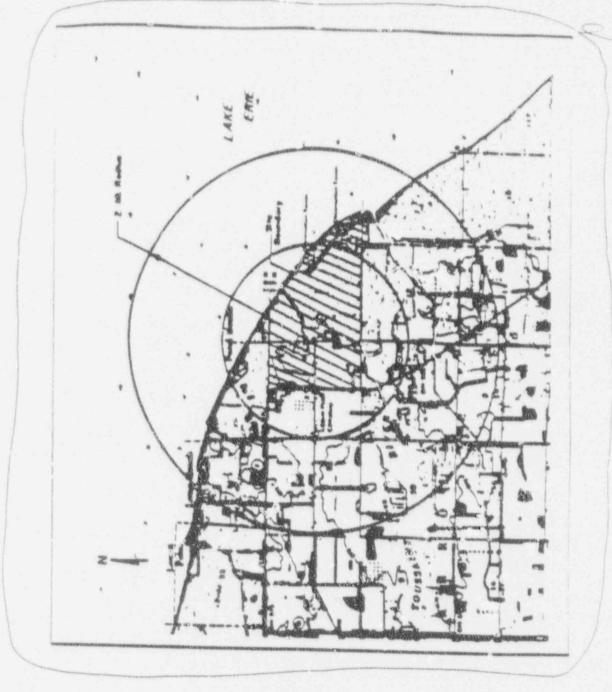
Amendment No. 170



DAVIS-BESSE, UNIT

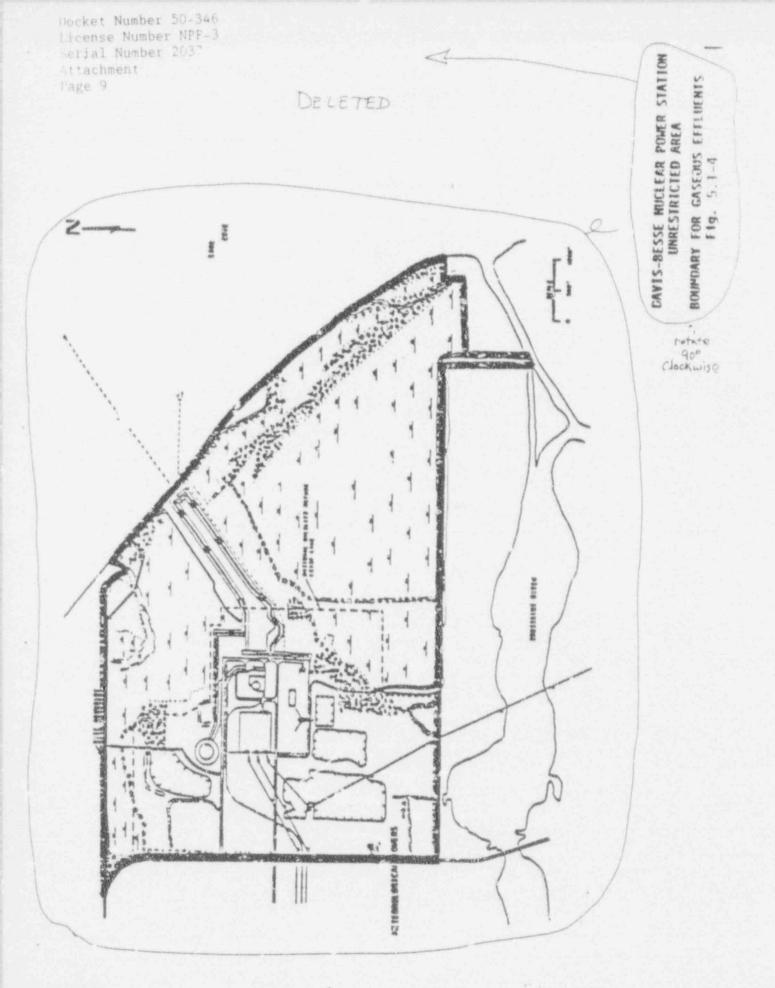
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Attachment Page 7



DELETED

DAMAS - BESSE MUCLEAR POWER STATION LOW POPULATION ZONE FIGURE 5.1-2 Docket Number 50-346 license Number NPF-3 Serial Number 2037 Attachment Page 8 DELETED 90" Clockwise CAVIS-BESSE, UNIT 1 5-9 Amendment No. 85, 170



FOR INFORMATION ONLY

DEFINITIONS

1.29 Deleted

PROCESS CONTROL PROGRAM

1.30 The PROCESS CONTROL PROGRAM (PCP) shall contain the current formulas. sampling, analyses, tests, and determinations to be made to ensure that processing and packaging of solid radioactive wastes based on demonstrated processing of actual or simulated wet solid wastes will be accomplished in such a way as to assure compliance with 10 CFR Parts 20, 61, and 71, State regulations, burial ground requirements, and other requirements governing the disposal of solid radioactive waste.

1.31 Deleted

OFFSITE DOSE CALCULATION MANUAL (ODCM)

1.32 The OFFSITE DISE CALCULATION MANUAL (ODCM) shall contain the methodology and parameters used in the calculation of offsite doses resulting from radioactive gaseous and liquid effluents, in the calculation of gaseous and liquid effluent monitoring Alarm/Trip Setpoints, and in the conduct of the Environmental Radiological Monitoring Program. The ODCM shall also contain (1) the Radioactive Effluent Controls and Radiological Environmental Monitoring Programs required by Section 6.8.4 and (2) descriptions of the information that should be included in the Annual Radiological Envirormental Operating and Semianrual Radioactive Effluent Release Reports required by Specifications 6.9.1.10 a 6.8.1.11.

- 1.33 Deleted
- 1.34 Deleted
- 1.35 Deleted
- 1.36 Deleted

MEMBER(S) OF THE PUBLIC

1.37 MEMBER(S) OF THE PUBLIC shall include all persons who are not occupationally associated with the plant. This category does not include employees of the utility, its contractors or vendors. Also excluded from this category are persons who enter the site to service equipment or to make deliveries. This category does include persons who use portions of the site for recreational, occupational or other purposes not associated with the plant.

SITE BOUNDARY

1.38 The SITE BOUNDARY shall be that line beyond which the land is neither owned, nor leased, nor otherwise controlled by the licensee.

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FOR INFORMATION ONLY

DEFINITIONS

UNRESTRICTED AREA

1.39 An UNRESTRICTED AREA shall be any area at or beyond the SITE BOUNDARY access to which is not controlled by the licensee for purposes of protection of individuals from exposure to radiation and radioactive materials, or any area within the SITE BOUNDARY used for residential quarters or for industriars commercial, institutional, and/or recreational purposes. The definition of UNRESTRICTED AREA used in implementing the Radiological Effluent Technical Specifications has been expanded over that in 10 CFR 20.3(a)(17). The UNRESTRICTED AREA boundary may coincide with the exclusion (fenced) area boundary, as defined in 10 CFR 100.3(a), but the UNRESTRICTED AREA does not include areas over water bodies. The concept of UNRESTRICTED AREAS, established at or beyond the SITE BOUNDARY, is utilized in the LIMITING CONDITIONS. FOR OPERATION to keep levels of radioactive materials in liquid and gaseous effluents as low as is reasonably achievable, pursuant to 10 CFR 50.36a.

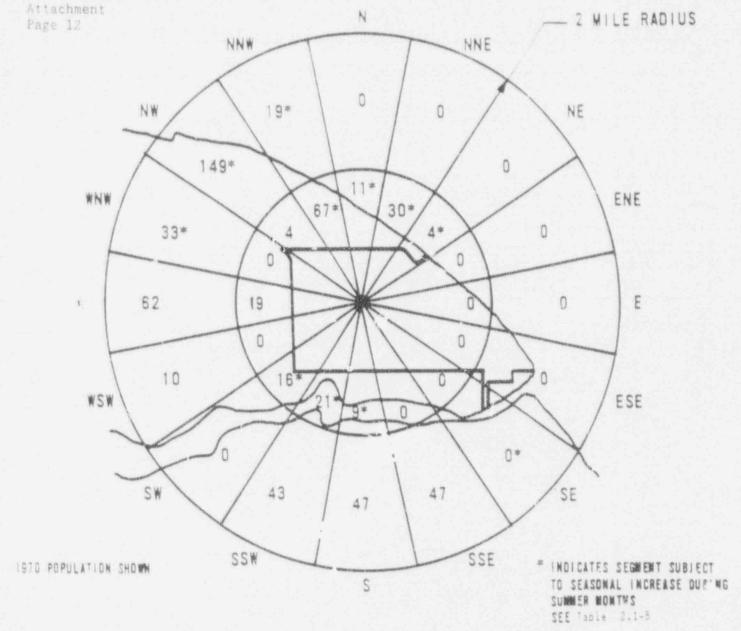
1.40 Deleted

CORE OPERATING LIMITS REPORT

1.41 The CORE OPERATING LIMITS REPORT is the unit-specific document that provides core operating limits for the current reload cycle. These cycle-specific core operating limits shall be determined for each reload cycle in accordance with Specification 6.9.1.7. Plant operation within these core operating limits is addressed in individual specifications.

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FOR INFORMATION ONLY



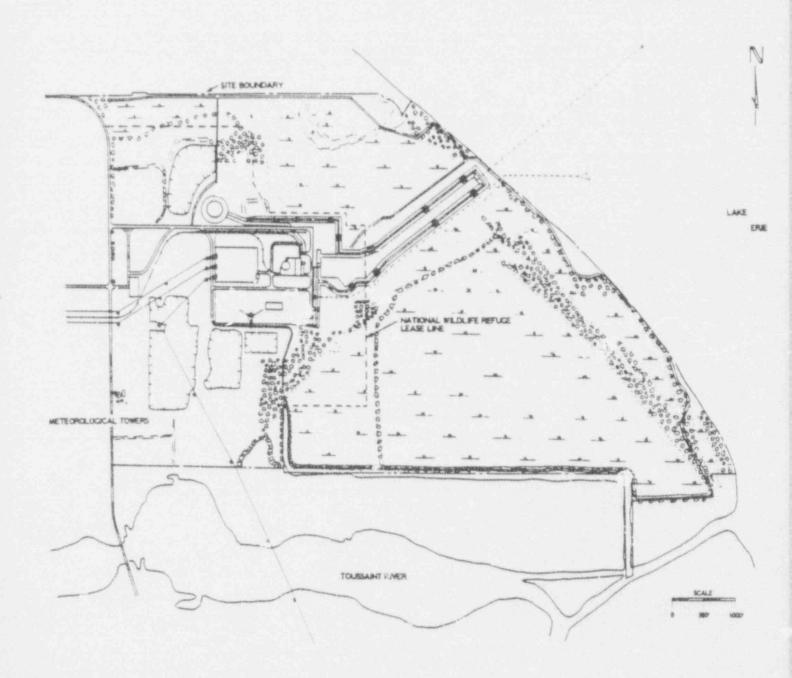
ANNULI	PERMANENT POPULATION PROJECTION				
IDIALS	1570	1980	1990	2000	2010
0 - 1	181	181	181	211	277
1-2	410	410	410	47.1	506
TOTAL	591	591	591	E.B.2	733

FOR SEGMENT DISTRIBUTION IN FUTURE YEARS SEE Table 2.1-2

FOR SEASONAL INCREASE IN RESIDENT POPULATION DURING JUMMER MONTHS. SEE Table 2.1-5

DAVIS-BESSE NUCLEAR POWER STATION LOW POPULATION ZONE FIGURE 2.1-7

FOR INFORMATION ONLY



DAVIS-BESSE NUCLEAR POWER STATION
SITE ARRANGEMENT
FIGURE 2.1-3