

U.S. NUCLEAR REGULATORY COMMISSION NAC FOIA REQUEST NUMBERISI

RESPONSE TO FREEDOM OF (INFORMATION ACT (FOIA) REQUEST

NAC FOIA REQUEST NUMBERISI
FOIA - 87-540
RESPONSE TYPE

DATE

OCT 7 1987

DOCKET NUMBER(S) (If applicable)

REQU	DR. DAVE PIROZO			
	PART I RECORDS RELEASED OR NOT LOCATED (See checked boxes)			
	No agency records subject to the request have been located.			
	No additional agency records subject to the request have been located.			
	Agency records subject to the request that are identified in Appendix are already available for public inspection and copying in the NRC Public Document Room, 1717 H Street, N.W., Washington, DC.			
X	Agency records subject to the request that are identified in Appendix are being made available for public inspection and copying in the NRC Public Document Room, 1717 H Street, N.W., Washington, DC, in a folder under this FOIA number and requester name.			
The nonproprietary version of the proposal(s) that you agreed to accept in a telephone conversation with a member of my staff is now being made available and coying at the NRC Public Document Room, 1717 H Street, N.W., Washington, DC., in a folder under this FOIA number and requester name.				
	Enclosed is information on how you may obtain access to and the charges for copying records placed in the NRC Public Document Room, 1717 H Street, N.W., Washington, DC			
	Agency records subject to the request are enclosed. Any applicable charge for copies of the records provided and payment procedures are noted in the comments section.			
	Records subject to the request have been referred to another Federal agency(ies) for review and direct response to you.			
	In view of NRC's response to this request, no further action is being taken on appeal letter dated			
	PART II.A INFORMATION WITHHELD FROM PUBLIC DISCLOSURE			
X	Certain information in the requested records is being withheld from public disclosure pursuant to the FOIA exemptions described in and for the reasons stated in Part II, sections B, C, and D. Any released portions of the documents for which only part of the record is being withheld are being made available for public inspection and copying in the NRC Public Document Room, 1717 H Street, N.W., Washington, DC, in a folder under this FOIA number and requester name.			

Comments

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SIGNATUR PRECTOR, DIVISION DE AULES AND RECORDS

PART II D-APPEAL RIGHTS

writing and must be made within 30 days of receipt of this response. Appeals must be addressed as appropriate to the Executive Director for Operations of to the Secretary of the Commission, U.S. Nuclear Regulatory Commission, Washington, DC 20555, and should clearly state on the envelope and in the letter that it is an "Appeal from an Initial FOIA Decision." The denial by each denying official identified in Part II.C may be appealed to the Appellate Official identified in that section. Any such appeal must be in

Re: FOIA-87-540 (Second Partial)

APPENDIX C

RECORDS MAINTAINED IN THE PDR UNDER THE ABOVE REQUEST NUMBER

3/4/87 Memorandum to George Felgate from E. William Brach,
Background Information for Commissioner Carr's Visit to
Beaver Valley. (24 pages)
 7/10/84 Letter to Chairman Zech and Commissioners Bernthal and
Carr from John M. Arthur, Beaver Valley. (1 page)
 8/14/87 Commissioner Carr's Notation Vote Response Sheet,
SECY-87-202. (1 page)

Re: FOIA-87-540 (Second Partial)

APPENDIX D

RECORDS TOTALLY WITHHELD - EXEMPTION (5)

Undated Chairman's Vote Sheet on SECY-87-202. (1 page)
 Undated Commissioner Roberts' Vote Sheet on SECY-87-202. (1 page)
 8/11/87 Internal note from P. Gwynn to Chairman Zech re Vote on Beaver Valley Unit 2. (1 page)
 8/13/87 Commissioner Bernthal's Vote on SECY-87-202, subject: Beaver Valley Power Station, Unit 2, Full-Power License. (1 page)

August 17. 1987 Washington, D.C.

Mr. Donnie Grimslev Director. Division of Rules & Records U.S. Nuclear Regulatory Commission Washington. D.C. 20555

Dear Mr. Grimslevs

FREEDOM OF INFORMATION

ACT REQUEST

FOIA-87-540

Call & 8-20-87

Fursuant to the Freedom of Information Act. 5 USC 552 et sed. as amended, or any other applicable laws. I hereby request the following material.

The state of the s

- 1) NRC Commissioners' notation vote sheet reparding the full-power licensing of Duguesne Light Co.'s Beaver Valley-2.
- 2) All NRC staff or Duquesne Light Co. staff memoranda, notes, recommendations or correspondence with NRC commissioners or their staffs, or other NRC personnel concerning the low-power testing and full-power operation of Beaver Vallev-2.
- 3) Information released under a FOIA filed by Office of Insector & Auditor Director Sharon Connelly NRC investigation concerning manner in which she and other OIA personnel handled an internal personnel matter (Lisa Shea, EEOC complaint).

If you have any questions or require additional information, please contact me at 463-1659.

Sincerely.

Dave Airoza Assistant Editor McGraw-Hill Nuclear Publications 1120 Vermont Ave. Suite 1200 Washington, D.C. 20005

(202) 463-1659

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UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON, D. C. 20555

MAR 4 1987

MEMORANDUM FOR:

George Felgate

Assistant to Commissioner Carr

FROM:

E. William Brach, Executive Coordinator

for Regional Operations

DEDROGR

SUBJECT:

BACKGROUND INFORMATION FOR COMMISSIONER CARR'S

VISIT TO BEAVER VALLEY

Enclosed is general background information on Beaver Valley Units 1 and 2 for your use in preparing for Commissioner Carr's visit to the site on March 10-11, 1987. The background papers include copies of the most recent SALP reports for both units (Unit 1 - operating, Unit 2 - construction) and a list of open SER issues for Unit 2. If you need any additional information, please contact Bill Kane (Region I, FTS 488-1229) or me.

> E Williams wet E. William Brach

Executive Coordinator for Regional Operations

DEDROGR

Enclosure: Background Information

on Beaver Valley

cc: M. Clausen

C. Ader

J. Austin

J. Meyer

W. Kane, RI

BACKGROUND INFORMATION

ON

BEAVER VALLEY NUCLEAR POWER STATION

Duquesne Light Company Utility:

Location: Shippingport, Pennsylvania (5 mi E of East Liverpool, Ohio)
22 Mi NW of Pittsburgh, Pennsylvania

Beaver County, Pennsylvania

	Unit 1	Unit 2
Elec. Ener. 1st Gener: Commercial Operation Reactor Type: Power Level: Architect/Engineer: NSSS Vendor: Constructor: Turbine Supplier: Condenser Cooling Method: Condenser Cooling Water:	5/10/76 6/14/76 10/1/76 PWR 3-loop 835 MWe (DER): 2652 MWt (LTP) Stone & Webster Westinghouse Stone & Webster Westinghouse Natural Draft Cooling Tower Ohio River	Same Same Same Same Same
Licensing Project Manager:	Peter Tam, NRR (Tel: 492-4409	,
NRC Responsible Region:	Region I, King of Prussia, Pe Thomas E. Murley, Regional Ad	nnsylvania ministrator
Div. of Reactor Projects: (Region 1)	William F. Kane, Div. Dir (Te Edward C. Wenzinger, Branch C (Tel: 8-488-1224) Lowell E. Tripp, Section Chie (Tel: 8-488-1227) David F. Limroth, Project Eng (Tel: 8-488-1121)	hief f
Sonian Posident Inspector (Un	it 1): William M. Troskoski (Tel: 8-412-643-920

Senior Resident Inspector (Unit 1): William M. Troskoski (Tel: 8-412-643-9200) Senior Resident Inspector (Unit 2): James E. Beall (Tel: 8-412-643-5274)

Resident Inspector (Unit 1): Andra A. Asars (Tel: 8-412-643-9201)
Resident Inspector (Unit 2): Leonard J. Prividy (Tel: 8-412-643-5) Leonard J. Prividy (Tel: 8-412-643-5320)

Andra A. Asars, Resident Inspector, Report Coordinated by: Beaver Valley

^{*}Fuel load date estimated to be 4/30/87.

Duquesne Light - Site Management Personnel

Jack Carey, Senior Vice President, Nuclear Group Jack Sieber, Vice President, Nuclear Group James Crockett, Senior Manager, Nuclear Operations

Unit 1

Steve Lacey, Plant Manager Gene Ewing, Manager, Quality Assurance

Unit 2

Jack Kline, Manager, Engineering and Construction Rich Swiderski, Project Manager Gene Ewing, Manager, Quality Assurance

Workforce

Staffing level at the plant: Unit 1 = 600, plus corporate personnel also located on site. Unit 2 = 5900

Workshifts

Unit 1 - Five rotating shifts (3 working shifts, 1 off-shift and 1 training).

Unit 2 - Three working shifts with 4000 on daylight shift, 1200 on evening shift and 700 on night shift. On weekends, there are two shifts, daylight and evening with approximately 900 and 200, respectively.

Personnel on Each Shift

Unit 1 (Operations):

2 Senior Reactor Operators (SROs)

2 Reactor Operators (ROs) 1 Shift Technical Advisor 2 Auxiliary Operators

Licensed Reactor Operators

Total Licensed Reactor Operators: 61 (Unit 1)

23 SROs (which includes 17 in plant

management)

38 ROs

Reactor Operator Exams

Unit 1

Date Of Exam	Number Of Applicants	Passed	Failed
10/84 2/85 4/85 2/86 7/86	12 SROs 3 ROs 6 ROs 11 KOs 11 SROs 5 ROs 5 SROs	11 SROs 2 ROs 3 ROs 11 ROs 4 SROs 5 ROs 3 SROs	1 SRO 1 RO 3 ROs 7 SROs 2 SROs
Unit 2	12 ROs	7 ROs	5 ROs
1/87	12 SROs 8 ROs	(Results not	yet available)

Next Exam Scheduled: 5/87 (Expected to have 12 SROs and 7 ROs).

Plant Simulator

A Unit 1 plant-specific simulator is located onsite in the training center. The simulator was made operational in March 1985.

Control Room

Currently, there is a temporary wall separating the Unit 1 and Unit 2 control rooms. The licensee plans to remove this wall in March-April 1987.

Systematic Assessment of Licensee Performance (SALP)

September 30, 1985, and a report issued on May 23, 1986. A copy of this report is attached (Attachment 1). The next SALP review period for Unit 1 covers October 1, 1985 through March 15, 1987. The Region I SALP board is scheduled to meet the week of May 4, 1987. A SALP report is expected to be issued approximately May 29, 1987. A meeting with the licensee is scheduled for early June 1987.

A Unit 2 SALP review was completed for the period April 1, 1985 through March 31, 1985. This report was issued on July 2, 1986; a copy is also attached (Attachment 2). The next SALP review period for Unit 2 covers April 1, 1986 through February 28, 1987. The Region I SALP board is scheduled to meet the week of April 20, 1987. A SALP report is expected to be issued approximately May 10, 1987. A meeting with the licensee is scheduled for mid-May 1987.

The current Beaver Valley Unit 2 SALP is likely to assess the licensee's performance as generally satisfactory (or higher). The licensee has shown improvement in the areas of implementation of design changes and managing and meeting test milestone dates. The licensee has been particularly effective in coordinating schedule adjustments during major preoperational tests. However, continued management attention will be necessary to ensure that the Quality Assurance Program is implemented effectively.

Escalated Enforcement Action

The Unit 1 resident inspectors received an allegation on May 27, 1986, from a contractor radiation technician as he was escorted offsite after having his employment terminated. The alleger expressed several concerns in the areas of radiation control practices and industrial safety. These allegations were investigated by a Region I Health Physics specialist during a subsequent inspection; the allegations were not substantiated and no violations were identified. The alleger filed a complaint with the Department of Labor claiming unfair job termination. A DOL field investigation determined that he was wrongfully fired by the utility and its subcontractor. The licensee has settled this matter out of court. As a result of this allegation, and in accordance with 10 CFR 50.54(f), Region I requested that the licensee provide assurance that this matter has not had a "chilling" effect in discouraging contractor or DLC personnel from bringing safety concerns to NRC's attention. The licensee's response is currently being evaluated.

In September 1986, an inspector identified a violation of NRC reporting requirements at Unit 2. In 1983 and 1984, DLC and Stone & Webster Engineering had identified deficiencies with some Westinghouse 7300 Process Protection System circuit cards. However, the inspector determined that the Construction Deficiency Report filed in accordance with 10 CFR 50.55(e) did not contain an adequate description of corrective actions and was not reported in a timely manner. This violation is currently under consideration for escalated enforcement action.

Emergency Preparedness

An emergency preparedness exercise for Unit 1 was conducted successfully in November 1986. The licensee has been rated as Category I in emergency preparedness in the past several SALPs.

A Unit 2 emergency preparedness exercise is scheduled for October 1987.

Emergency Response Facilities (ERF)

The Emergency Operations Facility (EOF), Technical Support Center (TSC), and Operational Support Center (OSC) became operational in the summer of 1985. The licensee's actions with respect to Supplement 1 to NUREG-0737 cannot be closed until an Emergency Response Appraisal is conducted by the NRC.

Plant Status - Unit 1

Unit 1 was shutdown for a refueling outage May 16, 1986 through August 8, 1986. The next refueling outage is scheduled for November 1987.

Unit 1 is operating at 100% licensed rated power.

Cumulative capacity factor is low, approximately 50.4%. This is primarily due to a 12-month major shutdown imposed by the Commission to backfit seismic requirements. Refueling outages also tend to be long due to numerous modifications. More recently the yearly capacity factor has been on par with other reactors; e.g., 67.3% for 1986, 83.2% for 1985, 66% for 1984, and 66% for 1983.

Plant Status - Unit 2

Applicant's percent construction completed: 98.7% as of January 1987.

Current work activities include: completion of preoperational testing including the loss of offsite power tests, and installation of cable wraps and tray covers.

An as-built team inspection is scheduled for the weeks of March 16 and 23, 1987. A Technical Specification verification team inspection is scheduled for the weeks of March 30 and April 6, 1987. These teams will review as-built safety-related systems, structures and components to verify compatibility with the Unit 2 Technical Specifications, FSAR, and supporting safety analyses.

The SER was issued October 1985 (3 supplements have been issued, 2 more are expected).

Fuel load is scheduled for April 30, 1987.

Significant Open Issues in the SER

There are no significant open issues in the SER. However, the list of open issues and confirmatory issues are attached. (Attachement 3). All open issues can be closed prior to licensing.

Attachments:

- Unit 1 SALP report dated May 23, 1986.
- Unit 2 SALP report dated July 2, 1986.
 SER Open Issues and Confirmatory Issues
- 4. Site Location and Area Maps

Location and Description

The Beaver Valley Power Station is located in Shippingport Borough, Beaver County, Pennsylvania, on the south bank of the Ohio River. The site is approximately one mile from Midland, Pennsylvania, five miles from East Liverpool, Ohio, and approximately 25 miles from Pittsburgh, Pennsylvania.

The site comprises approximately 501 acres. Also on the lite to the west of the reactor location is the Shippingport Atoric Power Station (SAPS) waveget by Luquesia Light Company for the Depart who of Energy. The SAPS terminated operations October 1, 1982. Local site topography, site boundary and exclusion radii are shown in Figure 1.0.

Phillis Island lies approximately 400 feet off the shoreline of the site. This island is being excavated as a borrow source for aggregate.

Population

The distance and direction to population centers that have more than approximately 25,000 inhabitants and are located within 50 miles of the site and listed in Table 1.0. The location of these population centers is shown in Figure 2.0.

The approximate distribution of the 1985 population based on census reports, topographic maps, aerial photographs, and field observation is shown in Figure 3.0 when combined with Table 2.0 for 16 directional sectors and radial distances in on-half mile increments out to a distance of 10 miles from the station. Incremental and cumulative populations at these distances are listed in Table 2.0.

Major public facilities in the vicinity of the site are presented in Table 3.0.

Industry

The general area in which the site is located is part of the large Pittsburgh industrial complex, which is centered about the City of Pittsburgh. Table 4.0 lists the major employers in the area surrounding the site.

Transportation

The region is served by five transportation systems; railroads, highways, air, pipelines and waterways.

One of the first rail lines in the region ran from Pittsburgh up the eastern bank of the Beaver River to the Great Lakes region. That line is one of the main Penn Central lines. The world's largest electrically controlled railroad switching yards, capable of handling 10,000 cars per day, is located on this line at Conway about ten miles east of the site.

State Highway 68 provides the main access from the residential areas east of the site to the industrial complexes along the north bank of the Ohio River. State Highway 168 from the south follows roughly along the northeast and east corner of the site and, crossing the Shippingport Bridge, joins Highway 68 immediately across the river from the site. State Highway 18 provides additional access to the east of the site which U.S. Route 30 passes by three miles southwest of the site.

The nearest interstate highway to the site is the Pennsylvania Turnpike (I-76) which runs through the northeastern section of Beaver County about 15 miles northeast of the site. Interstate 79 is located about 18 miles east of the site while Interstate 70 which goes through Wheeling, West Virginia, is about 30 miles to the south. Figure 4.0 shows the local area highway map.

The most important airport in the region for passenger and freight service is the Greater Pittsburgh International Airport, located about 15 miles southeast of the site.

The areas is also served by pipelines carrying natural gas and petroleum products. There are six pipelines crossing the site.

The Ohio River is a major natural resource in this region. In addition to supplying water to industry and towns in the valley and transportation for bulk freight in and out of the region, it serves as a source of recreation for fishermen and boaters alike.

Attachments:

Figure 1.0 (Local Site Topography) Figure 2.0 (Counties and Towns within 50 Miles) Figure 3.0 (Population - Distribution) Figure 4.0 (Site Location) Table 1.0 (Population Centers with over 25,000 People) Table 2.0 (Population Distribution for 1985) Table 3.0 (Public Facilities) Table 4.0 (Major Employers)

Attachment 3

Table 1.2 Open issues

Issue		Status	SER section	
(1)	Preservice/inservice testing program		And the second s	
	(a) PST	Deleted in SSER 3	3.9.6	
	(b) IST	Under review	3.9.6	
(2)	Pump and valve leak testing	Closed in SSER 3	3.9.6	
(3)	Inadequate core cooling instrumenta- tion (Item II.F.2 of NUREG-0737)	Closed in SSER 2	4.4.7	
(4)	Preservice/inservice inspection program			
	(a) PSI ·	Under review	5.2.4.3, 5.4.2.2,	
	(b) ISI	Updated in SSER 1, remains open	6.6	
(5)	Safe and alternate shutdown	Unchanged from SER	9.5.1	
(6)	Management and organization	Under review	13.1	
(7)	Cross-training program	Closed in SSER 1	13.2.1.2	
(8)	Emergency preparedness plan	Under review	13.3.3	
(9)	Initial test program	Closed in SSER 3	14	
(10)	Control room design review	Updated in SSER 1, remains open	18.1	
(11)	Safety parameter display system	Updated in SSER 1, remains open	18.2	

Table 1.3 Backfit issues

Issue		Status*	SER section
(1)	Snow and ice load	С	2.3.1
(2)	Underestimation of atmospheric dispersion conditions (χ/Q) at exclusion area boundary and consequences of radioactive release	С	2.3.4, 15.4.8
(3)	Potential for flooding from probable maximum precipitation and Peggs Run	С	2.4.2, 2.4.10
(4)	Steam generator level control and protection	C2	7.3.3.12
(5)	Motor-operated accumulator isolation valve	С	8.3.1.12
(6)	Spent fuel pool maximum heat load	С	9.1.3
(7)	Fire suppression in the cable spreading room	Α	9.5.1.6
(8)	Class 1E power for lighting and communication systems	С	9.5.2.1
(9)	Application of GDC 5 to communication systems	С	9.5.2.1
	Application of GDC 2 and 4 to communication systems	С	9.5.2
(11) Application of GDC 4 to lighting systems	С	9.5.3
) Illumination levels in excess of SRP criteria	С	9.5.3
) Application of RG 1.26 to areas excluded by RG 1.26	С	9.5.4-9.5.8
(14) Air dryers for emergency diesel generator	С	9.5.6
) Alarm for rocker arm lube oil reserve	С	9.5.7
) Diesel lube oil fill procedure	С	9.5.7

^{*}A - Issue was discussed in appeal meeting, and partial resolution was addressed in the SER (October 1985). Status updated in SSER 3.

C - Closed in SER (October 1985).

C2 - Closed in SSER 2, confirmatory issue 49 opened.

Table 1.4 Confirmatory issues

Issu	ue .	Status	SER section
(1)	Operating procedures for continuous communication links	Closed in SSER 3	2.2.2
(2)	Differential settlements of buried pipes	Under review	2.5.4.5
(3)	Internally generated missiles (outside containment)	Unchanged from SER	3.5.1.1
(4)	Internally generated missiles (inside containment)	Unchanged from SER	3.5.1.2
(5)	Turbine missiles	Unchanged from SER	3.5.1.3
(6)	Analysis of pipe-break protection outside containment	Unchanged from SER	3.6.1
(7)	FSAR drawings of break locations	Unchanged from SER	3.6.2
(8)	Results of jet impingement effects	Unchanged from SER	3.6.2
(9)	Soil-structure interaction analysis	Closed in SSER 1	3.7.3
(10)	Design documentation of ASME Code components	Closed in SSER 2	3.9.3.1
(11)	Item II.D.1 of NUREG-0737, pressure/ relief valves	Under review	3.9.3.2
(12)	Seismic and dynamic qualification of mechanical and electrical equipment (SQRT)	Under review	3.10.1
(13)	Pump and valve operability assurance (PVORT)	Under review	3.10.2
14)	Environmental qualification of mechanical and electrical equipment (EQRT)	Under review	3.11
15)	Peak pellet design basis	Closed in SSER 1	4.2.1
16)	Discrepancies in the FSAR	Closed in SSER 1	4.2.2
17)	Rod bowing analysis	Closed in SSER 1	4.2.3.1(6)
18)	Fuel rod internal pressure	Closed in SSER 1	4.2.3.1(8)
19)	Predicted cladding collapse time	Closed in SSER 1	4.2.3.2(2)

Table 1.4 (Continued)

Issu	e	Status	SER section
(20)	Use of the square-root-of-the-sum-of- the-squares method for seismic and loss-of-coolant-accident load calculation	Closed in SSER 1	4.2.3.3(4)
(21)	Analysis of combined loss-of-coolant- accident and seismic loads (MULTIFLEX)	Under review	4.2.3.3(4)
(22)	Natural circulation test	Updated in SSER 1; remains open	5.4.7.5
(23)	Reactor coolant system high point vents	Closed in SSER 3	5.4.12
(34)	Blowdown mass and energy release analysis methodology	Under review	6.2.1.3
(25)	Containment sump 50% blockage assumption	Updated in SSER 2; remains open	6.2.2
(26)	Design modification of automatic reactor trip using shunt coil trip attachment	Under review	7.2.2.3
(27)	Automatic opening of service water system valves MOV113C and 113D	Closed in SSER 1	7.3.3.10
(28)	IE Bulletin 80-06 concerns	Unchanged from SER	7.3.3.13
(29)	NUREG-0737, Item II.F.1, accident monitoring instrumentation positions	Closed in SSER 1	7.5.2.2
(30)	Bypass and inoperative status panel	Under review	7.5.2.4.
(31)	Revision of the FSARcold leg accumu- lator motor-operated valve position indication	Closed in SSER 3	7.6.2.4
(32)	Control system failure caused by malfunctions of common power source or instrument line	Under review	7.7.2.3
(33)	Confirmatory site visit		
	(a) Independence of offsite power between the switchyard and Class 1E system	Closed in SSER 1	8.2.2.3
	(b) Confirmation of the protective bypass	Closed in SSER 1	8.3.1.2

Table 1.4 (Continued)

Issu	9		Status	SER section
(33)	Conf	irmatory site visit (Continued)		
	(c)	Verification of DG start and load bypass	Closed in SSER 1	8.3.1.8
	(d)	DG load capability qualification test	Closed in SSER 1	8.3.1.9
	(e)	Margin qualification test	Closed in SSER 1	8.3.1.10
	(f)	Electrical interconnection between redundant Class 1E buses	Closed in SSER 1	8.3.1.13
	(g)	Verification of electrical independence between power supplies to controls in control room and remote locations	Closed in SSER 1	8.3.3.5
(34)	Volt	age analysisverification of test	Unchanged from SER	8.3.1.1
(35)		mentation of description and analysis compliance with GDC 50	Unchanged from SER	8.3.3.7.1
(36)	Comp	oletion of plant-specific core damage imate procedure before fuel load	Unchanged from SER	9.3.2.2
(37)		ining program for the operation and intenance of the diesel generators	Unchanged from SER	9.5.4.1
(38)		ration of instruments and controls on sel generator	Unchanged from SER	9.5.4.1
(39)	dies	veillance of lube oil level in the sel generator rocker arm lube oil ervoir	Closed in SSER 2	9.5.7
(40)	501	id waste process control program	Unchanged from SER	11.4.2
(41)	TMI	Action Plan items		
	(a)	<pre>III.D.1.1, postaccident reactor coolant leakage outside containment</pre>	Under review	13.5.2
	(b)	II.K.1.5 and II.K.1.10, IE Bulletins on measures to mitigate small-break LOCAs and loss of feedwater	Under review	15.9.2, 15.9.3
	(c)	<pre>II.K.3.5, automatic reactor coolant pump trip during LOCA</pre>	Under review	15.9.9

Table 1.4 (Continued)

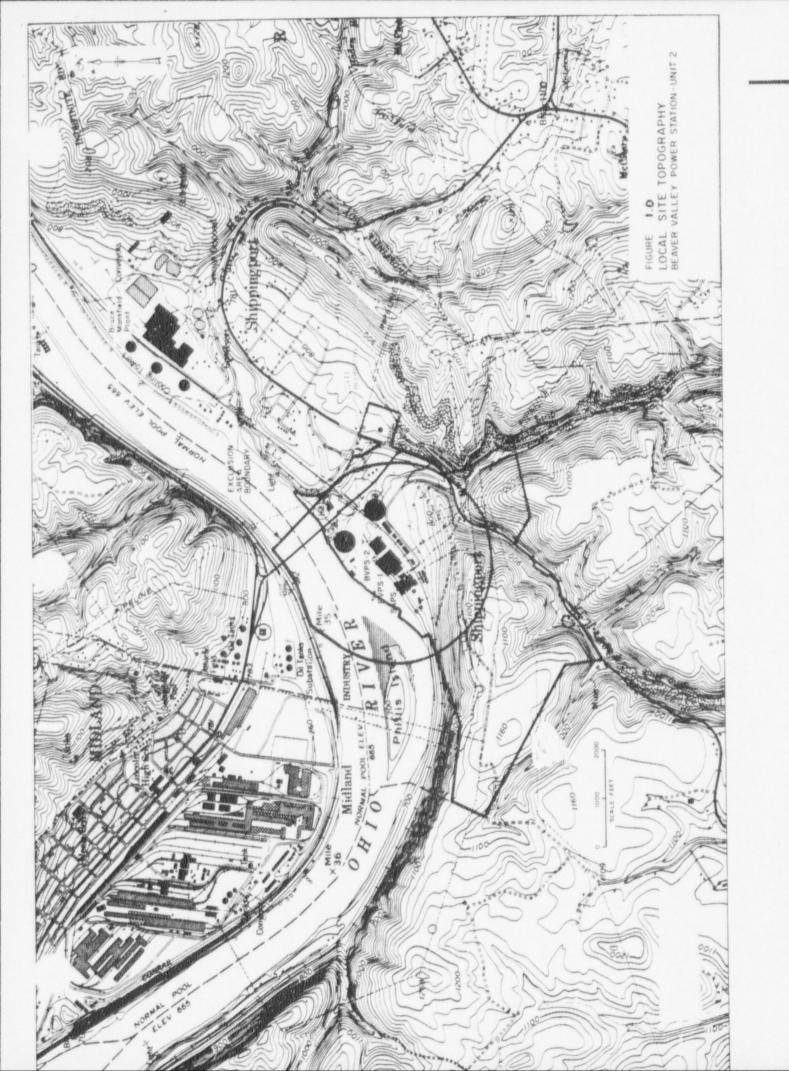
Issue		Status	SER section
(41) 7	'MI Action Plan items (Continued)		
	(d) II.K.3.17, report on ECCS outage	Under review	15.9.11
	(e) II.K.3.31, compliance with 10 CFR 50.46	Closed in SSER 3	15.9.14
(42)	Plant-specific dropped rod analysis	Closed in SSER 2	15.4.2
	Steam generator tube rupture	Under review	15.6.3
	Quality assurance program	Closed in SSER 1	17.4
	Cross-training of Unit 1 & 2 operators	Under review	13.2.1.1
	Control room isolation on high radiation signal	Under review	7.3.3.9
(47)	Review of procedures generation package	Unchanged from SSER 1	13.5.2
(48)	Fire protection: Amendment 12 review and site visit		
	(a) Amendment 12 review	Closed in SSER 3	9.5.1
	(b) Site visit	Unchanged from SSER 2	9.5.1
	(c) Safety-related system fire-barrier deviations	Opened in SSER 3	9.5.1
(49)	Steam generator high-level trip as non- protection system	Unchanged from SSER 2	7.3, 15.1.2
(50)	Implementation letter of ICCI system	Unchanged from SSER 2	4.4.7
(51)	Supperheated steam in valve house due to steamline break	Opened in SSER 3; under review	3.6.1
(52)	Initial testing		
	(a) Accumulator isolation valves	Opened in SSER 3	14.0
	(b) SOV, PO, IS tests	Opened in SSER 3	14.0

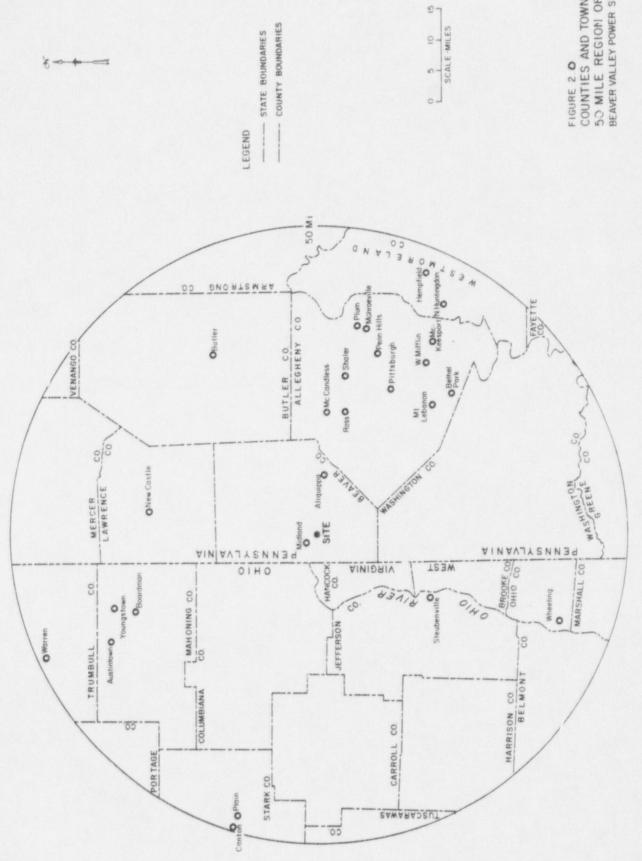
Table 1.4 (Continued)

Issue		Status	SER section
(52) Ini	tial testing (Continued)		
(c)	Plant performance after MSIV closure	Opened in SSER 3	14.0
(d)	Steam extraction system and process computer	Opened in SSER 3	14.0

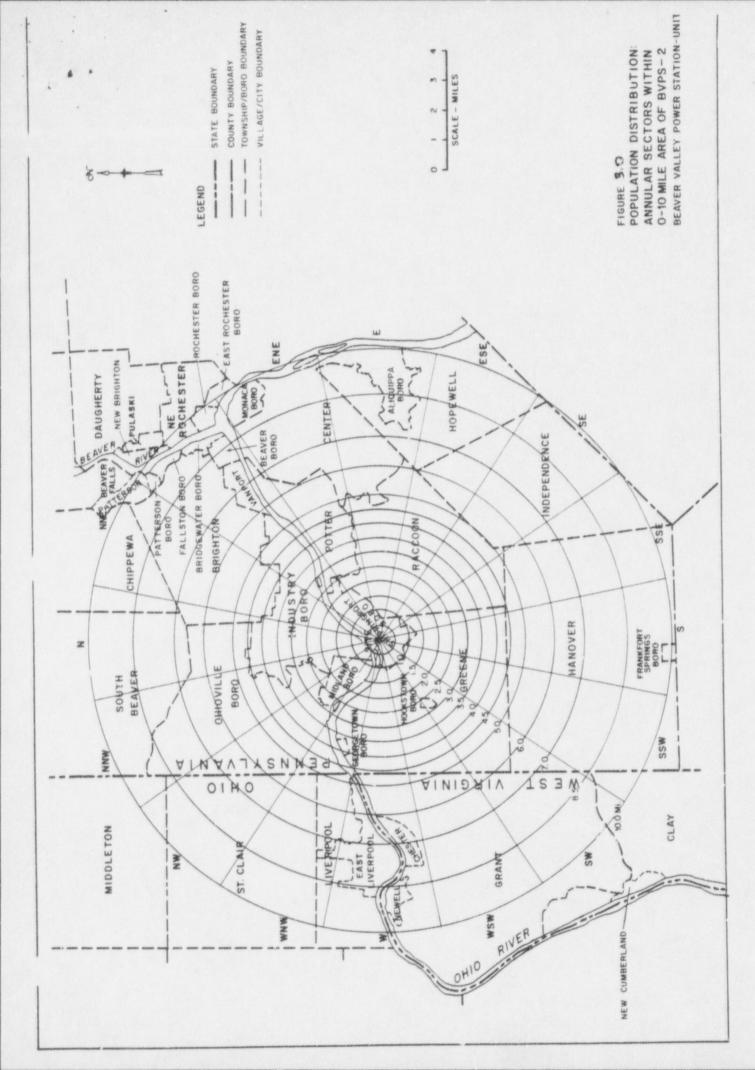
Table 1.5 License condition issues

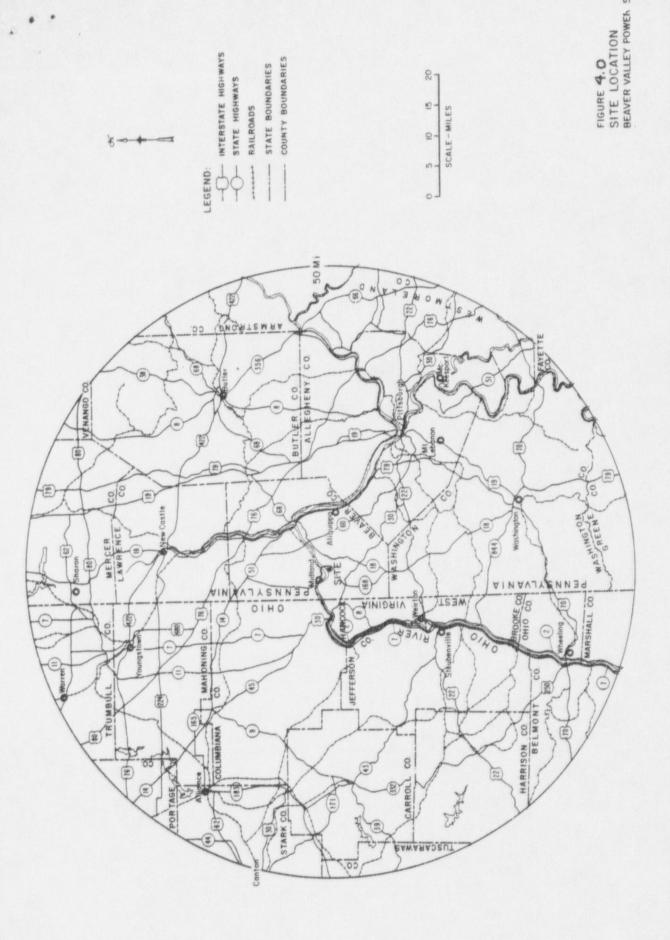
License condition		Status	SER section
(1)	Emergency response capability, RG 1.97, Rev. 2	Specifics provided in SSER 1; under additional generic review	7.5.2.1
(2)	Fire protection	Opened in SSER 3	9.5.1





COUNTIES AND TOWNS WITHIN 50 MILE REGION OF BVPS-2 BEAVER VALLEY POWER STATION - UNIT 2





SITE LOCATION
BEAVER VALLEY POWER STATION

POPULATION CENTERS WITH OVER 25,000 PEOPLE IN 1980 WITHIN 50 MILES OF BVPS-2

TABLE 1.0

City/Township/Borough	County	Distance* and Direction from Site	1980 Population
Pennsylvania**			
New Castle City Bethel Park Borough McCandless Township McKeesport City Monroeville Borough Mt. Lebanon Borough Penn Hills Township Pittsburgh City Plum Borough Ross Township Shaler Township West Mifflin Borough Hempfield Township North Huntingdon Township	Lawrence Allegheny Westmoreland Westmoreland	23.5 miles/N 28 miles/SE 17 miles/E 35 miles/ESE 36 miles/ESE 26 miles/ESE 21 miles/ESE 22 miles/ESE 21 miles/ESE 24 miles/ESE 24 miles/ESE 32 miles/ESE 32 miles/ESE 30 miles/ESE 31 miles/ESE 32 miles/ESE 32 miles/ESE 33 miles/ESE	33,621 34,755 26,250 31,J12 30,977 34,414 57,632 423,938 25,390 35,102 33,694 26,279 43,396 31,517
Ohio***			
Warren City Canton City Plain Township Steubenville City Austintown Township Boardman Township Youngstown City West Virginia****	Trumbull Stark Stark Jefferson Mahoning Mahoning Mahoning	45 miles/NNW 50 miles/WNW 48.5 miles/WNW 23 miles/SSW 34 miles/NNW 33 miles/NNW	56,629 110,053 32,431 26,400 37,664 41,833 115,427
	Ohio	36.5 miles/SSW	42,874
Wheeling City	OHLO	2010 1112202/0011	,

NOTES:

*Distance to closest boundary

^{**}U.S. Department of Commerce, Bureau of the Census, 1982a.

^{***}U.S. Department of Commerce, Bureau of the Census, 1982b.

^{****}U.S. Department of Commerce, Bureau of the Census, 1982c.

POPULATION DISTRIBUTION FOR 1985, 0-10 MILES
Distance from BVPS-2 (miles)

Totai	3,127 8,541 21,383 16,757	27, 458 10, 562 2, 190 1, 505	2, 129 1, 476 2,565 2,808	26,352	143, 163
8.5- 10.0 I		14,451 7,662 660 396		6,472 2,280 243 265	62,351
8.5	535 4,947 2,080	10,467	525 405 357 701	12,520 3,319 372	39,340
		1,290			14,196
5.0-	2,620 513 306	238 365 180	479 252 286 548	2,300 549 390 698	10,549
5.0	230 132 232 44	43 169 0 346	182 77 90 73	93 426 138 347	2,622
4.5	158	100 144 0	139 47 158 25	25 162 325 16	1,585
3.5-	138 62 94 69	137 175 25	83 136 65	14 280 439 0	1,825
3.0-	220 82 561	275 122 84 61	22 68 205 61	54 230 67	
3.0-			69 28 278 108	-	(6.)
2.0-	31 27 155	269 53	126 50 90 54	22 0 559 26	1,645
			14 22 72		
-0.1	7 0 - 0 4	92.01	=====	1,050,1	1,302
0.5-	3400	0 0 0 0 0 0	0_00	287	501
0.0-	244	28 28 11 6	0000	0000	7
	Direction N NNE NE	ENE FSE ST ST ST ST ST ST ST ST ST ST ST ST ST	SSW	MNW WN	Total

TABLE 3.0

PARKS AND RECREATION FACILITIES WITHIN 10 MILES OF BVPS-2

Park/Recreation Area	Sponsorship	1981 Attendance (Visitor-days)	Approximate Distance from Station (Miles)	Direction from Station
Game Lands Number 189	Pennsylvania Game Commission	Not tabulated(1)	7	SSE
Game Lands Number 173	Pennsylvania Game Commission	Not tabulated(1)	3.5	NNW
Raccoon State Park	State of Pennsylvania	468,852(2)	6-9(3)	S-SSW(3)
Brady Run County Park	Beaver County, Pennsylvania	32,300(4)	8=9(5)	NNW
Tomlinson State Park	State of West Virginia	193,880(6)	10	SW-WSW(7)
Beaver Creek State Forest	State of Ohio	729,930(8)	10	MNM

NOTES:

- Pennsylvania Department of Natural Resources, Game Commission 1982a.
- Pennsylvania Department of Natural Resources, Bureau of State Parks 1982b.
- 3. Allocates visitors to south sector, 8 miles from station at park entrance and camping areas.
- 4. Beaver Valley Parks Department 1982.
- 5. West Virginia Department of Natural Resources 1982.
- 6. Operates May 21-September 30, allocates visitors 8 miles from station at park entrance.
- 7. Allocates visitors equally between SW and WSW sectors.
- 8. Ohio Department of Natural Resources, Division of Parks and Recreation 1982.

MAJOR INDUSTRIAL EMPLOYERS WITHIN 10 MILES OF BVPS TABLE 4.0

Estimated Number of Employees** (1983)	250	290	\$ 8 G	1,631	283	188	855	009	125	009
Approximate Distance & Direction from Site (miles)	AN I	NM I	6 NE	8 NE	N L	10 W	3 6	4.5 NE	9.5 NE	9 NE
Location	Mid:and, Pa.	Midland, Pa.	Potter Township, Pa.	Beaver, Pa.	East Liverpool, Ohio	Newell, W.Va.	Newell, W.Va.	Potter Township, Pa.	Rochester, Pa.	Monaca, Pa.
Name of Facility	Jones & Laughlin Steel Corporation - Midlan: Works	E.W. Bliss Co MacIntosh-Hemphill Division	St. Joe Minerals Co., - Smelting Division	Westinghouse Electric torp.	The Hall China Co.	Quaker State Oil Refining Corp.	Homer Laughlin China Co.	Arco-Polymers	PBI Industries	Anchor Hocking Corp Phoenix Glass
Product	Steef	Steel	Zinc	Elec- trical	China- ware	Petro- leum refining	Dinner- ware	Plastics	Steel	Glass- ware
*.04	-	8	m	a	2	9	7	8	6	10

TABLE 40(LONTY)

Estimated Number of Employees** (1983)	239	105	1,027	7,500	229	150
Approximate Distance & Direction from Site (miles)	9 NE	9 NE	1 ENE	9 E	9.5 W	7 0
Location	Monaca, Pa.	Monaca, Pa.	Shippingport, Pa.	Aliquippa, Pa.	Newell, W.Va.	Newell, W.Va.
Name of facility	Pittsburgh Tube Go.	Teledyne Vasco- Colonial	Pennsylvania Power Company, Bruce Mans- Field Plant	Jones & Laughlin Steel Corp. Aliquippa Works	Globe Re- factories, Inc.	Ohio Brass Co.
Product Type	Steel	Steel	Elec- tricity	Steel	Ladle	Elec. insula- tors
* CN	1	12	13	14	15	91

WOTES.

^{*}Refer to Figure 2.2-1 for industry locations. *25tone & Webster Engineering Corporation 1983.