cc: T. Murley J. Allan

> J. Gutierre: S. Ebneter W. Kane

T. Martin R. Blough

R. Bellamy

J. Wiggins PHL - 2/17/87



UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON, D. C. 20886

February 10, 1987

MEMORANDUM FOR THE FILES

FROM:

SUBJECT:

G. Wayne Kerr, Director

Mo (pute con Office of State Programs

Martin G. Malsch

Deputy General Couns

TESTIMONY BEFORE THE SPECIAL JOINT COMMITTEE ON THE INVESTIGATION AND STUDY OF THE PILGRIM STATION

NUCLEAR GENERATING FACILITY AT PLYMOUTE OF THE

MASSACHUSETTS LEGISLATURE, PEBRUARY 2: 1987

The first witness was Sharon Pollard, Secretary of Energy Resources, who appeared on behalf of Governor Dukakis. Her testimony focused on the need to resolve all problems at Pilgrim before going back on line. She acknowledged NRC authority over radiological matters but felt the State can insist on adequate construction and emergency preparedness. She stated that Massachusetts has a constitutional responsibility to protect public health and safety. She discussed the involvement of six State agencies affecting Pilgrim. She noted that the State EP plan for Pilgrim was submitted in 1981 but it has not been formally approved. She received questions on environmental monitoring and the role(s) of the State agencies. Ms. Pollard expressed concern over NRC's oversight of the lant and was asked for a memo covering specifics. She also raised the containment issue.

Martin G. Malsch, OGC was the next witness. Fe stated that unler the Atomic Energy Act the State has no authority to regulate nuclear power plants for the purpose of protection against radiation hazards (except for radioactive emissions into the air which States may regulate by virtue of the Clean Air Act), but that there was no Atomic Energy Act bar to States regulating nuclear power plants for non-radiation protection purposes, such a economics, rates, etc., so long as such non-radiological regulations do not conflict with an NEC safety requirement. In response to questions, he stated that in his opinion the State authority to regulate for economic purposes applied to operating plants as well as to plants under construction, although the economic basis for State action would of course be different. In response to further questions, he stated that adverse economics associated with high-level nuclear waste and spent fuel disposal could be the basis for a State shutting down a nuclear power

plant (indeed this was the very kind of State action upheld by the U.S. Supreme Court in the PG&E case), but that there was some question in his mind whether such an economic justification could be developed since enactment of the Nuclear Waste Policy Act and its establishment of the Waste Pund.

A representative of the Attorney General's Office discussed her perspective on the legal aspects of jurisdiction. She covered the AE Act, the Pacific Gas & Electric Company v. State (California) Energy Resources Conservation and Development Commission, and the Karen Silkwood cases noting the non-radiological areas where the State was recognized as having authority, particularly by the two court cases. Rep. Forman noted that the Commonwealth appears to have been reluctant to move into these areas of control. In response to a question, she noted the Commonwealth would not be opposed to restart of Pilgrim if they were assured that the public health and safety can be protected.

Wayne Kerr, OSP, presented a brief discussion of State involvement in nuclear issues with a focus on those States most actively involved at NRC licensed facilities. He described the type of activities carried out by Oregon, Vermont, Illinois, Pennsylvania, New Jersey, Washington and Ohio. He responded to questions related to low-level waste generation, LLW inspections, LLW compacts, and on the nature of Section 274b agreements with NRC.

Mr. Abbott spoke on behalf of a citizens group from the Plymouth area. Be discussed radiological releases (in non-specific terms) from Pilgrim that he believes were not reported promptly and dissatisfaction with the Commonwealth's TLD monitoring program and installation of the link to the Commonwealth. He also recommended the Commonwealth alth have an inspector to follow plant activities but not as a resident, since he feels residents become apologists for Boston Edison. He stated he does not have confidence in NRC and the Commonwealth should move into the vacuum.

The Assistant Secretary of Public Safety, Peter Agnes made a brief presentation on their plans to review the functions of emergency planning, environmental monitoring and nuclear engineering oversight with possible consolidation of these functions organizationally. In response to a question, he stated that they can assess the utility for the cost of these functions. A response to a question on the legal liability of the Commonwealth for damages or injuries offsite if they had an approved emergency plan was inconclusive.

Mr. Gerald Parker, Assistant Commissioner of Health was to testify after the departure of Messrs. Malsch and Kerr.

Note To: BILL KARL

FIN BUD CAPAR

FOR 2.200 PETITIONS. I HAVE MITTION OF STATISTICS

FOR 2.200 PETITIONS. I HAVE MITTON FORENCE

THE PREVIOUS LETER SENT TO NOTTON/FORENCE

WITH THE NUMBERS THEY GALL HE BUT

IT THINK THE NUMBERS IN MAISCHES LETER

OTE PRODUCTY MORE ACCURATE, AND WOULD DIE TRAVE IF

Four of the Petitions That were Granted in whole or it part Aid ENDICATED ON THE 2 NO PS OF THE MAISCH LETTER.

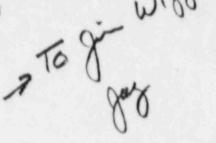
Device En Port and Decisions April and Decisions Port and device. (See Attached Decisions)

Box.



NUCLEAR REGULATORY COMMISSION WAS HINGTON, D. C. 20066

February 12, 1987



Senator Thomas C. Norton, Senate Chairman
Representative Peter Forman, House Chairman
Special Joint Committee on the Investigation
and Study of the Pilgrim Station Nuclear
Generating Pacility at Plymouth
The Commonwealth of Massachusetts
State House
Boston, Massachusetts 02133

Gentlemen:

In my appearance before the Joint Committee on February 2 I promised to supply you with information regarding iforcement petitions and possible radioactive material releases at Pilgrim. With regard to the former, the statistics you requested are as follows:

2.206 PETITIONS RECEIVED AND PUBLISHED DECISIONS ON THEM 1974-1986

Year	*Petitions Received	Granted in Whole or in Part	Partial Deferral
1974-1982	189	24	Undetermined
1983	27-	3	1
1984	26224	32 ≥	223
1985	12	1	
1986	112 13	10	
	265	32-2 30	3° 4

*If several petitions were considered in a single decision, for purposes of this listing they are counted as one petition.

With regard to the latter, I contacted our Region I office and was informed that their inspections do not reveal any offsite releases of radioactive materials from Pilgrim in excess of regulatory limits. There was some incident in 1982 when contaminated resins were spilled into a plant vent system but

there was no evidence of releases offsite. If you want further details, I am sure that our Region I office could supply them.

Sincerely,

Martin G. Malsch

Deputy General Counsel for Licensing and Regulation

DD= 83-16 18 NRC 1123 84-2 19 NRC 478 85-9 21 NRC 1759 86-7

PARTIAL MIDLAND DA

GRANTED MIDLAND DA

PARTIAL CATAWOR HARMANT + O

Cite as 19 NRC 542 (1984)

UNITED STATES OF AMERICA NUCLEAR REGULATORY COMMISSION

OFFICE OF INSPECTION AND ENPORCEMENT

Richard C. DeYoung, Director

in the Matter of

Docket No. 50-293 : (10 C.F.R. § 2.206) 1

BOSTON EDISON COMPANY (Pilgrim Nuclear Power Station)

February 27, 1984

The Director of the Office of Inspection and Enforcement grants in part and denies in part a petition submitted by the Massachusetts Public Interest Research Group requesting that the NRC toke action with respect to the state of emergency planning at Pilgrim facility. Among the specific relief requested was the initiation of the 4-month period specified by the Commission's regulations within which to correct the alleged deficiencies at the Pilgrim facility and consideration by the Commission as to whether the state of emergency preparedness in conjunction with the alleged poor safety record at the Pilgrim facility warrants immediate shutdown or operation of the facility at reduced power.

TECHNICAL ISSUE DISCUSSED: EMERGENCY PLANNING

The Federal Emergency Management Agency takes the lead in offsite emergency planning and reviews and assesses State and local emergency plans for adequacy. The NRC assesses the licensee's site emergency plans for adequacy and makes decisions with regard to the overall state of emergency preparedness.

EMERGENCY PLAN: EMERGENCY PLANNING ZONE

The Commission's regulations preclude an Emergency Planning Zone (EPZ) radius significantly in excess of 10 miles. An EPZ of about 10 miles is considered large enough to orovide a response base which would support activity outside the planning zone should this ever be

EMERGENCY PLAN: EVACUATION PLAN

The Commission has adopted an approach to emergency planning in which evacuation is only one of several possible responses to an emergency. It is unlikely that evacuation of the entire plume EPZ would be required in the event of an accident. Pending a final determination regarding the adequacy of evacuation time estimates, it is reasonable to conclude that the public health and safety will be reasonably assured in the inici'm by continued licensee compliance with Commission requirements regarding emergency planning and other health and safety requirements aimed at keeping the probability of serious accidents very low.

INTERIM DIRECTOR'S DECISION UNDER 10 C.F.R. § 2.206

INTRODUCTION

In its "Petition of the Massachucztts Public Interest Research Group for Emergency and Remedial Sction" (Petition) dated July 20, 198). the Massachusetts Public Interest Research Group (hereinafter referred to as Petitioner) requested that the Nuclear Regulatory Commission (NRC) take action to remedy alleged serious deficiencies in the offsite emergency response plans for the Pilgrim Nuclear Power Station in Plymouth, Massachusetts. Among the specific relief requested was the initiation of the 4-month period specified by the Commission's regulations, specifically 10 C F.R. § 50.54(s)(2)(ii), within which to correct the alleged deficiencies at the Pilgrim facility and consideration by the Comnission as to whether the suits of emergency preparedness in conjunction with the alleged poor safety record' at the Pilgrim facility

¹ The Persons, in the relief is requested, made reference to the poor safety record as the Prigrom factors as a regard for granting the relief. As stared in the September 6, 1983 letter to the Pentioner with regard to Pilgram's safety record sinje 1981, in and 1982 the bornage initiated a Performance Improve ment Flan pursuant to an NRC (Index 14" Fed. Roy. 417) (1981.) to improve the plant's performance. This plan, which was submitted to the NRC on July 30, 1982, has senior unity management monitement in amoring quality and has involved in marked improvement in Filgren's operating record over the

warrants immediate shutdown or operation of the facility at reduced

The Petitioner's request is based upon a report by the Petitioner entitled "Blueprint for Chaos II: Pilgrim Disaster Plans Still a Disaster" (hereinafter referred to as the Chaos II Report), the "Comments of Attorney General Francis X. Bellotti Relative to Off-Site Emergency Planning for the Pilgrim Nuclear Power Station" (hereinafter referred to as the Comments of the Attorney General), and upon two reports by the Federal Emergency Management Agency (FEMA) — "Interim Findings: Joint State and Local Radiological Emergency Response Capabilities for the Pilgrim Nuclear Power Station, Plymouth, Massachusetts," dated September 29, 1982, and "Report on the Pilgrim Nuclear Power Station Siren Test, June 19, 1982," dated January 1983.

In its Chaos II Report, the Petitioner has reviewed offsite emergency planning for the Pilgrim facility and claims to have identified certain deficiencies with regard to the size of the plume exposure pathway Emergency Planning Zone (EPZ), advance information provided to the public on what actions to take in the event of an emergency, required notifications during an accident itself, and evacuation planning and sheltering including the adequacy of reception and medical facilities. In each of these areas, the Petitioner makes various recommendations as to actions which it believes are required to improve the state of preparedness at the Pilgrim facility. The Petition states that the findings of the Chaos II Report are supported in part by a telephone survey of 100 re-idents of the EPZ conducted by the Petitioner. The survey was conducted between February and May of 1983.

In further support of its Petition, Petitioner references the Comments of the Attorney General which also question the adequacy of emergency planning for the Pilgrim facility. Specifically, Petitioner argues that the Comments of the Attorney General support Petitioner's "aims that the EPZ has been drawn too small and that evacuation plans are inadequate." The Comments of the Attorney General are based in part upon a study prepared for the Attorney General by MHB Technical Associates of San Jose, California

pair 3 years. The last Systematic Aspergment of Excessive Performance report for the period field (1983), as the St. 1983 and Figures a Category 1.5 high-facet performance 2 having in emistage to painting, a Category 2 months performance in having an operation contained in principal operations, and as overall Category 2 rating in the eight functional areas assessed. Since late 1983, there has been continued improvement in Prigrent to protection operational safety. A sales successful demangement attention and involvement in principal safety and involvement in principal safety as safety accessed in the safety accessed to the safety and safety accessed to the s

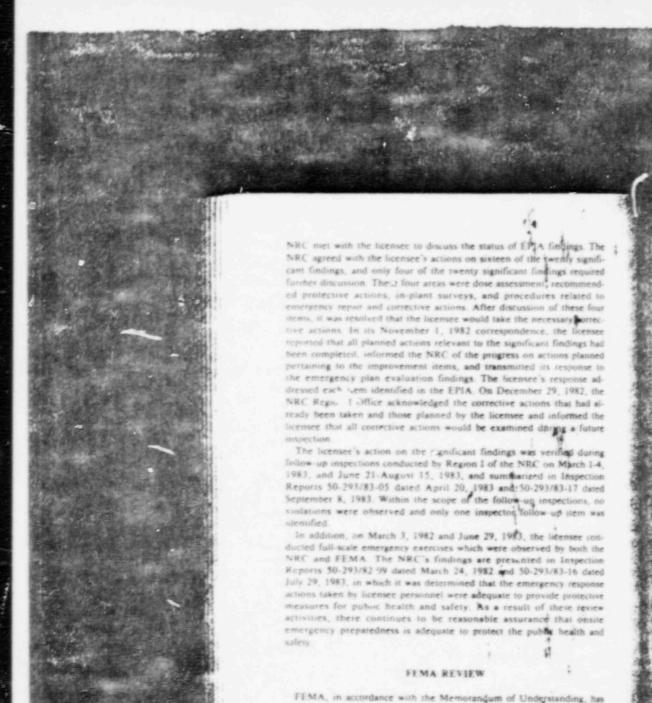
If the Comments of the Associacy Citizenal were forwarded to REMIX on August 25, 1982. While the Comments of the Associacy Comments are called upon by the Personner only to subpart of comments are relied upon by the Personner only to subpart of comments are relied upon by the Personner only to subpart of comments proposed by the current EPZ was and execution planning. So, Personner of Charol II Report or In.

DISCUSSION

Emergency preparedness at the Pilgrim facility has been reviewed by both the NRC and FEMA. The NRC Final Rule on Emergency Planning (45 Fed. Reg. 55,402) became effective on November 3, 1980 11 M V and the NRC have jointly developed criteria for implementing these regulations; specifically the agencies have dev loped a guidance document entitled, "Criseria for Preparation and I valuation of Radiological Emergence Response Plans and Prepared ess in Support of Nuclear Power 13ths," NUREO 0654/FEMA-REP J. Rev. 1 (NUREG-0654) The cooperative relationship between NRC and FEMA is described in a "Memorandum of Understanding Betwee, NRC and FEMA Relating to Radiological Emelgency Planning and Pres edness" of January 1, 1980 (45 Fed. Reg. 5847). Under the Memorandum of Understanding. FEMA takes the lead in offsite emergency planning and reviews and assesses Sigle and local emergency plans for adequacy. The NRC assesses the licensee's site emergency plans for adequacy and makes decisions with regard to the overall state of emergency preparedness. The NRC and FEMA undertook a review of the state of emergency preparedness at the Pilgrim facility in accordance with the requirements of the final rule in emergency planning.

NRC REVIEW

The NRC initiated the process of reviewing the licensee's emergenick plan in 1979 in connection with its review of the construction permit application for Pilgrim Uflit 2. Following the rule change in November 1980, an upgraded site emergency plan was submitted for the Pilgram facilitys. The results of the NRC's evaluation of the licensee's upgraded emergency plan and an examination of the implementation of the plan, conducted during an Emergency Preparedness Implementation Appraisal (EPIA) on July 13-24, 1981, are summarized in Inspection Report \$0-293/81-15 dated June 22, 1982. The findings of the EPIA indicated that certain corrective actions were required by the licensee in the emergency plan and in the implementation of its emergency plan in order to achieve an effective emergency preparedness program. The EPIA also identified areas of lesser significance where the licensee could improve its emergency preparedness. The licensee responded to the concerns identified by the NRC in a letter dated July 28, 1982, wherein the licensee concluded that the significant findings which had been identified in the EPIA report had been adequately addressed. Following the recogn of the licensee's response to the EPIA report, on August 5, 1982, the



FEMA, in accordance with the Memorandum of Understanding, has reviewed the adequacy of offsite emergency preparedness at the Pilgrim facility. A preliminary review of the Massachusetts State Radiological Plan was conducted in October 1981 by the Regional Assistance Com-

mittee (RAC). Based on the preliminary review, the RAC concluded that the plan was in an advanced but incomplete stage and that further revision to the plan was required in order to conform to the guidance criteria of NUREG-0654. The NRC requested that FEMA review the process for prompt protective action decisionmaking in Massachusetts based on draft State plans and information submitted to the RAC in early 1982. On June 11, 1982, FEMA issued an interim finding that the current protective action decisionmaking process in Massachusetts was adequate to provide for public protection. Formal submission of emergency plans to the RAC by State and relevant local jurisdictions was followed by the first joint radiological emergency response exercise on March 3, 1982. The exercise involved emergency preparedness organizations at both the State and local levels. The performance of these organizations in implementing their radiological emergency response plans was observed. Deficiencies were identified as a result of this exercise and corrective actions initiated by the parties involved. On September 10, 1982, FEMA Region I issued its "Exercise Report - Joint State and Local Radiological Emergency Response Exercise for the Palgrim. Nuclear Power Station, Plymouth, Massachusetts, March 3, 1982 " Bimemorandum dated November 2, 1983, FEMA provided to the NRC its "Interim Findings - Joint State and Local Radiological Emergency Response Capabilities for the Pilgrim Nuclear Power Station, Plymouth, Massachusetts" dated September 29, 1982. The interim findings were based on a summary evaluation of the Mansachusetts Radiological Emergency Response Plan and the exercise of the State and local emergency response plans held on March 3, 1982. Although deficiencies were identified which required corrective action, FEMA found that the Massachusetts State and local emergency plans and preparedness for coping with the offsite effects of radiological emergencies that mas occur at the Pilgrim Nuclear Power Station were adequate to protect the public

The second joint radiological emergency response exercise at Polgrom was held on June 29, 1983. A seventeen-member Federal team was assigned to evaluate State, local and field activities. By memorandum dated November 29, 1983, FEMA transmitted to NRC its "Final Report of the Joint State and Local Radiological Emergency Response Exercise."

There exists in each of the ren varidated Federal Regions a Regional Assessance Committee (R.A.) thomsely the Regional Advance Committee (Rand to a FEAA Regional official and having members from the Nuclear Regulatory Committees (Parad to a FEAA Regional official and having members from the Nuclear Regulatory Committees (Parad Transportation) of Transportation of Transportation, Environmental Protection Agreey, the County States Uniqueness of Agriculture and Department of Committee The RAC was not focus and focus of the electron of their extraordinates of the electron of their electronic of the elec

tor the Pilgrim Nuclear Power Station, Plymouth, Massachusetts," dated September 26, 1983 (1983) Exercise Report). The 1983 Exercise Report identifies no deficiencies that would lead to a negative finding. Deficiencies requiring corrective action were identified by FEMA in two areas — the State police radio notification system and the transmission of meteorological information. FEMA also identified other deficiencies and additional areas of improvement for consideration by the State and local authorities regarding their offsite emergency preparedness program. FEMA will furnish a copy of the 1983 Exercise Report to the Comminimealth of Massachusetts and will request a schedule of actions for the correction of deficiencies. A copy of the 1983 Exercise Report was sent to NRC Region I on January 12, 1984 for its use in coordinating with FEMA Region I in ensuring that the identified deficiencies are addressed in a timely manner.

Following receipt of the Petition, the Petition and the supporting Chaos II Report were forwarded to FEMA for its evaluation and review since the Petition questioned the adequacy of offsite emergency prepuredness at the Pilgrim facility. By memorandum dated November 9, 1983. FEMA provided to the NRC its final report entitled "Analysis of Emergency Preparedness Issues at Pilgrim Nuclear Power Station Raised hs the Massachusetts Public Interest Research Group (MASSPIRG)," duted November 3, 1983, attached hereto as Appendix A. The Novemher 3, 1983 report indicates that FEMA has reviewed the Petition and has also consulted with members of the RAC and officials of the Commonwealth of Mussachusetts. This review resulted in FEMA confirming. ils interim finding referred to above that the Commonwealth of Massachusetts has demonstrated that there is deasonable assurance that the public would be adequately protected if there were an accident at the Pilgrim Nuclear Power Station. In addition, in its November 3, 1983 report, FEMA indicated that the results of the 1982 Exercise Report have been superceded by the results of the 1983 Exercise Report. In effect, the numerous deficiencies identified by FEMA in its 1982 Exercise Report have been corrected or otherwise resolved. Thus only two deficiencies requiring corrective action, as described above, remain outstanding.

"Our Supure 7, 1983, ES MA Readquarters revised their procedural policy on exercise observation and evaluation in order to provide a more antiform, withinkin approach for use by tighten EEMA regional of force in their custome represent process. The guidance introduced for experiong deficiencies which would be also to progress feature, deficiencies which require correction across but observes would not read to a originize. Ending and other deficiencies where a correction across but observes among fine which consists action should be considered. Deficiencies than would lead to a negative finding, would cause a finding action of the progress of the model of the procedure of the progress of the progress of the procedure of the progress of the p

moteurs of measures available salety to protect the health and salety of the public

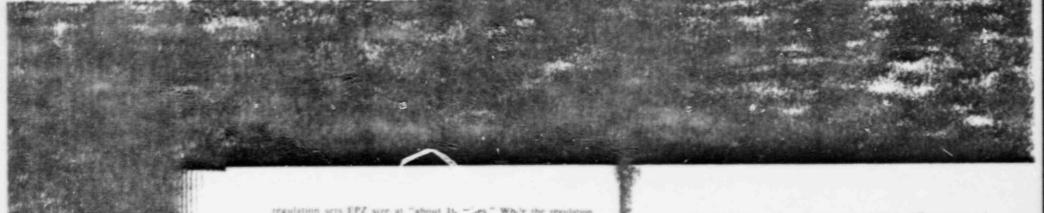
The NRC has reviewed the November 9, 1983 FEMA response and concurs with the conclusions reached therein. However, further discussion is appropriate regarding the "sillowing issues raised by the Petitioner and addressed in the FEMA report.

I. Capability of the Licensee to Make Accurate Release Estimates

The FEMA report moon at 6-7 that the role of the licensee in preparing release estimates upon which to make protective action determinations is more properly an NRC evaluation responsibility than that of FEMA. The NRC agrees that the licensee's capability is a proper area for NRC evaluation. During the EPIA, described preziously, NRC inspectors conducted walk-through inspections with members of the licensee's onsite emergency organization. These inspections were conducted in the areas of control room dose projections, dose assessment, event classification, offsite notification, offsite mor lying and environmental assessment. The inspections identified deficiencies in the areas of the dose assessment scheme, basis for recommended protective actions and related procedures and training. The licensee took corrective actions on these deficiencies and, as mentioned above, foilinw-up inspection on the EPIA findings conducted by NRC Region I verified that corrective action had been taken by the licensee on all significant findings identified during the EPIA Additionally, on March 3, 1982, a team of NRC observers was on hand to witness the full-scale exercise held at Pilgrim. During the conduct of the exercise, eleven NRC team members made detailed observations in various areas including detection. classification and assessment, direction and coordination of the emergency response, notification, and dose projection and consideration of protective actions. The NRC team concluded that, while there was some room for improvement, there were no items which exhibited a potential for significant degradation of emergency response. Similar observations were made at the second full-scale exercise at Pilgrim on June 29, 1981. In this instance, the NRC team concluded that the licensee demonstrated the capability to implement its emergency plan and emergency plan implementing procedures in a manner which would adequately provide for the health and safety of the public

II. Size of the EPZ

The Petitioner suggests that the EPZ size may require considerable expansion. However, this is in effect an attack on the Commission's regulations, specifically 10 C F.R. § 50.47(c)(2). The Commission's



regulation sets EPZ size at "about 1t "ines." While the regulation would allow leeway for a mile or two in either direction based upon local factors, it clearly precludes an EPZ radius significantly in excess of 10 miles as suggested by the Petitioner See Southern California Edison Co. (San Onofre Nuclear Geoerating Station, Units 2 and 3). LBP-82-39, 15 NRC 1163, 1177-84 (1982). aff d. ALAB-717, 17 NRC 346 (1983). However, even considering the Petitioner's assertion on its ments, the information provided by the Petitioner does not support enlargement of the EPZ.

Tisc 11 MA report of November 3, 1983 makes reference to the MHB Technical Associates Study used by Politioner to support its request that the EPZ size for the Pilgrim facility should be enlarged. Petitioner's request is based in part on a review of preliminary Calculation of Reactor Accident Consequences (CRAC) results conducted by MHB Technical Associates for the Attorney General. The MHB Study is entitled Review of Calculation of Reactor Accident Consequences (CRAC 2) Results and Legard Pathways (NUREG-1596) Study. Implications for Emergency Planning in the Vicinity of the Pilgrim Nuclear Power Station." Uniter contract to the Department of the Attorney General for the Commonwealth of Massachusetts, MHB Technical Associates reviewed the CRAC computer code and its results for the Pilgrim Station. and NUREG/CR-1596 "Consequences from Liquid Pathways After a Reactor Meltdown Accident," August 1981. The Petitioner argues that the MHB conclusions regarding the CRAC code require enlargement of the Pilgrim FP7. The MHB study attempts to apply a generic study to a site-specific case. The CRAC calculations were carried out for a report which was written to support the formulation and comparison of possible ailing criteria for nuclear power plants, and generic rather than sitespecific parameters were used. A realistic estimate of the risk from severe accidents at each plant was not attempted for that report.

The plume EPZ- for the Pilgrim facility is based upon NUREG-0654 auxiliance criteria. The joint NRC/EPA Task Force that developed NUREG-0396 considered several possible rationales for establishing the

an accident consequence spectrum. The Task Force chose to base EP/ size on a full spectrum of accidents and corresponding consequences tempered by probability considerations. It was the consensus of the Task Force that a plume EPZ of about 10 miles would provide an adequire planning base beyond which actions could be taken on an ad-hoc using the same considerations that went into the initial action determinations. In its statement on "Planning Basis for Emergence Response to Nuclear Power Accidents," 44 Fed. Reg. 61,123 (1979), the Commission noted that an EPZ of about 10 miles is considered large enough to provide a response base which would support activity outside the planning zone should this ever be needed.

The Petitioner contends that, based upon the referenced CRAC code results, an enlargement of the current Pilgrim plume EPZ is warranted because the projected doses exceed the EPA Projective Action Guides (PAGs)* outside the 10-mile EPZ Both NcREG-0654 and NUREG-0396 recognize hased upon CRAC code results, that the PAGs might be exceeded beyond the 10-mile plume exposure EPZ in the event of the worst possible accident and meteorological conditions. However, a 10-mile plume exposure EPZ was still chosen as a planning basis in NUREG-0654 because.

- a projected doses from the traditional design has accidents would not exceed Protective Action Guide levels outside the zone.
- b. projected doves from most severe fuel degradation sequences would not exceed Protective Action Guide levels outside the cone.
- c for the worst fuel degradation sequences, immediate life threatening doves would generally not occur nutside the ristic and
- d detailed planning within 10 miles would provide a substantial base for expansion of response efforts in the event that this proved necessary.

On balance, the MHB Study referred to in the Comments of the Attorney General and used by Petitioner in support of its Petition does not

⁵ Technical Guidance for Siting Criteria Development, NUREGICE 2339, December 1983 In 54 RELLO R 2239 is general rather than plant apositic growth level was used, regional rather than elementary in the development organising incorporation and relocation mere used, and generic releases were assumed, at their order the design apositic releases congenies used for licensing.

^{*}The plants exposure pathway Emergency Francing Zone (EPE) established for the one is located except, within the force of Manachuseus. Its boundary extends # 5 as 52 miles from the site and actually persons of free translations.

The guidance crosses of NY 811, 0914 are derived from MURSG-0196. FFA 5201-19-016. Planting Resulting from the Decimagnosis of State and Local Government Radiological Smorgering Response Francis Support of Light Water Response. December 1918, which provides the concept of general Emergency Planting Junes.

[#]The EPA has developed and the NBS has adepted a. Manual of Prosecure Assume Caudes and Prosecure Assume for Nuclear - siems. EPA 1205-11-00 servage February 1965 which provides good water criteria for public forum officials or determining the need for and or choicing the appropriate prosecure actions. The Protection Assume Guide (PAG) is the proceeded drive to individuals in the providtion which ascripts having protection actions by shollaring or evaluation.

provide an adequate basis for reconsideration of the specific size of the Palgrom plume EPZ \star

111. E-acuation Time Estimates

In reviewing the Petition, the NRC staff considered information available to it concerning Evacuation Time Estimates (ETEs) and determined that, as Petitioner suggested, potential bottlenecks to effective evacuation of the EPZ may exist on the periphery of the EPZ. It would be important to control scaffic beyond the EPZ so that such traffic, exon Route J. did not lead to evacuation traffic congestion. Two notable points beyond the plume EPZ which could cause congestion are Route J. at Rouse 128 and Rouse 3 at the Sagamore Bridge. These points could load to larger ETEs than those now used. The NRC staff reviewed the ETTs now used while reviewing the construction permit application for Pilgtim, Unit 2, and has now determined that this matter should be speedically brought in the attention of FEMA for its consideration in the review of ETEs for the Pilgrim facility. Consequently, this matter was referred to FEMA on January 20, 1984 for consideration and my staff has requested a response from FEMA by March 30, 1984. Therefore I am deferring resolution of this part of the Petition until after I receive

I see no adequate reason to suspend operation of the Pilgrim facility pending this response. The overall state of emergency preparedness is adequate. No deficiencies which would lead to a negative finding on preparedness have been identified by FEMA. The sole remaining issue is the adequacy of ETEs for planning an emergency evacuation. The Commission has adopted an approach to emergency planning in which evacuation is only one of several possible responses to an emergency. See NUREG-0554, NUREG-0396 and 10 C.F.R. § 50,47(b)(10). It is unlikely that evacuation of the entire plume EPZ would be required in the event of an accident. Pending a FEMA determination on the adequacy of the ETEs, it is reasonable to conclude that the public health and safety will be reasonably assured in the interim by continued licensee compliance with Commission requirements regarding emergency planning and other health and safety requirements aimed at keeping the

probability of serious accidents very low " (J. Consolidated Edison Co. of New York. (Indian Point, Unit No. 2), CLI-83-16, 17 NRC 1006 (1983).

In view of the overall adequies of emergency proparedness for Pilgrim and the low likelihood that an evacuation would be required as a response in the event of a radiological emergency at Pilgrim. Pentitioner's requests that the NRC (1) issue a finding that the state of emergency preparedness at Pilgrim does not provide reasonable assurance that protective measures can and will be taken in the event of a radiological emergency, (2) suspend operation of the plant or order operation at reduced power, or (3) start the 4-month time period for correction of deficiencies are denied at this time.

CONCLUSION

In summary, both onsite and offsite emergency preparedness at the Pilgrim facility have been given continued review by both the NRC and FEMA. Onsite preparedness has been determined to be acquate bysed upon direct NRC evaluation of the licensee's emergency planning capabilities and based on the results of the continuing inspection program in this area conducted by Region I of the NRC. Offsite emergency preparedness has been reviewed by FEMA and it has been found that offsite plans are adequate and capable of being implemented. The most recent examination of offsite emergency preparedness by FEMA specifically considered the allegations raised by Petitioner and specifically found continued assurance of the adequacy of offsite emergency preparedness in protect the public health and safety. Consequently, Longitude that are overall state of emergency preparedness at the Pigeom facility is sufficient to assure the public health and safety while the remaining issue of Evacuation Time I stomatics is considered by FEMA.

Accordingly, the Petition's request for action pursuant to 10 C.F.R. § 2.206 has been denied in part and deferred in part as described in this decision. Once FEMA provides the Commission with its findings regarding Evacuation Time Estimates, the staff will provide the Petitioner with a copy of FEMA's evaluation and will inform the Petitioner of the staff's decision as to whether further action should be taken.

[&]quot;In its Notworks 1, 1983 report, EENA meets the current NBC studies related to accident source series pathshibition, and compagnances are expected to result in a revision to NUREC 6614, which could lead to recommend common of contemp EFF responses to response to NUREC 6614, which could lead to recommend common of contemp EFF.

The results are reported to recommend of the recommendation of the results of the results of the recommendation of the time attempt to the results of the results of the NRC is not completely at this time attempt to the results of the results.

If (he December 10, 108) she Pogram facility was ship down for inspection of power asking in the reconciliation system and for replacement of defective power in its anti-panel that the facility will be offer down for approximately it inventor. This should engine the staff or resolve the insule of the adequate of the ETEs proving legal staff of

As provided by 10 C.F.R. § 2.206(c), a ripy of this decision will be filed with the Secretary for the Commission's course.

Richard C. DeYoung, Director Office of Inspection and Enforcement

Dated at Bethesda, Maryland. this 27th day of February 1984. Cite as 19 NRC 555 (1984)

CLI-84-3

UNITED STATES OF AMERICA NUCLEAR REGULATORY COMMISSION

COMMISSIONERS:

Nunzio J. Palladino, Chairman Victor Gilinaky Thomas M. Roberts James K. Asselstina Frederick M. Bernthal

In the Matter of

Docke. No. 50-209-SP

METROPOLITAN EDISON COMPANY (Yhree Mile Island Nuclear Station, Unit No. 1)

Morch 28, 1984

In response to an Appeal Board memorandum (ALAB-724, 17 NRC 559 (1983)), concerning the treatment to be accorded the issues taised in a Board Notification (BN-83-47), the Commission decides that the issue of whether the power-operated relief valve should be safety-grade, because of the potential for using it to mitigate the consequences of design basis steam generator sube accidents, has no reasonable nexus to the TMI-2 accident and is, therefore, sutside the scope of the proceeding. The Commission also decides that the information in the Board Notification is not significant enough to warrant reopening the record sug sponsy even if it were within the scope of the proceeding.

TECHNICAL ISSUE DISCUSSED

Uses of power-operated relief valve in depressurization in the exent of a steam generator tube rupture.

Cite as 20 NRC 157 (1984)

DD-84-15

UNITED STATES OF AMERICA NUCLEAR REGULATORY COMMISSION

OFFICE OF INSPECTION AND ENFORCEMENT

Richard C. DeYoung, Director

in the Matter of

Docket No. 50-293 (10 C F.R. § 2 206)

BOSTON EDIS 2rd COMPANY (Pilgrim Nuclear Power Station)

July 3, 1984

The Director of the Office of Inspection and Enforcement denies the remaining portion of a petition under 10 C.F.R. § 2.206 which requested that the Nuclear Regulatory Commission take action to remedy alleged serious deficiencies in the offsite emergency response plans for the Pilgrim Nuclear Power Statics. On February 27, 1984, the Director issued an Interim Decision, DD-84-5, 19 NRC 542, which denied relief on all issues except potential traffic bottlenecks to exacuation of the area surrounding the Pilgrim facility. The remaining issue was referred to the Federal Emergency Management Agency (FEMA) for evaluation Based on FEMA's evaluation that traffic management issues have been adquately addressed by the Commonwealth of Massachusetts, the Director denies the remainder of the petition.

LOW POPULATION ZONE: EVACUATION

Traffic management issues related to potential bottlenecky to exactation have been adequately addressed by the Commonwealth of Massachusetts

FINAL BIRECTOP'S DECISION UNDER 10 C.F.R. § 2,206

INTRODUCTION

In its "Petition of the Massachuseus Public Interest Research Group for Emergency and Remedial Action." (Petition) dated July 20, 1983, the Massachusetts Public Interest Research Group thereinafter referred to as Petitioner) requested that the Nuclear Regulatory Commission INRC) take action to remedy alleged serious deficiencies in the offsite emergency response plans for the Pilgram Nuclear Power Station in Plymouth, Massachusetts. On February 27, 1984, I issued an "Interim Director's Decision Under 10 C F.R. § 2.206" examining a number of issues raised by the Petision and denying the relief requested with respect to those issues. However, the Petitioner's concern regarding potential bottlenecks to evacuation of the area surr-unding the Pilgrim facility was noted to be still under consideration. The Petitioner was informed that the NRC Fad formally requested the Federal Emergency Manager and Agency (FEMA) to evaluate the potential bottlenecks in the area near the Pilgrim site which may impede effective evacuation of the plume exposure pathway Emergency Planning Zone (EPZ). FEMA has now responded to the NR. 's request and a final decision in this matter is now possible.

DISCUSSION

The Interim Decision noted that, in its review of the Petition, the NRC staff considered information available to it concerning evacuation planning and determined that, as the Petitioner had suggested, potential bottlenecks to effective evacuation of the EPZ may exist an the periphery of the EPZ. The interim Decision mited that it would be important to control traffic beyond the EPZ so that such traffic, e.g., on Route 3, did not lead to evacuation traffic congestion. Two notable points beyond the plume EPZ which could cause congestion are Route 3 at Route 128 and Route 3 at the Sagamore Bridge Consequently, the NRC staff formally requested that FEMA review these traffic issues for the Pilgrim

facility and I deferred resolution of that portion of the Pention is after the staff received FEMA's response.

On May 15, 1984, FEMA responded to the NRC request Its. "Response to January 20, 1984, E-quest for Assistance on Exacution Fine Estimates for Pilgrim Nuclear Power Station," and the attached "Analysis Report on Issues Related to the Pilgrim Exacuation Linic Estimate, Pilgrim Nuclear Power Station, Plymouth, Massachusetts dated May 1, 1984 (hereinafter referred to as the FEMA Analysis) are attached hereto as Exhibit A (not published).

The FEMA Analysis notes that the bottlenecks at issue had pre-actistic been identified in the NRC's "Safety Evaluation Report related to the construction of Pilgrim Nuclear Generating Station. Unit No. 2. NUREG-0022, Supplement No. 5 thereinafter referred to as NUREG-0022 indicated that the Evacuation Time Estimates (ETEs) did not adequately reflect the two potential impediments to exacuation located outside the 10-mile EPZ discussed above. These potential impediments were identified by Dr. Thomas Urbanik. II. of the Lexas Transportation Institute who, as consultant to the NRC, conducted the review of the ETEs discussed in NUREG-0022.

As is set forth in the FEMA Analysis, FEMA has reviewed this matter by consulting with Dr. Urbanik, reviewing the pertinent plans and documents developed in response to NUREG-0022, and consulting with the State agencies responsible for implementing evacuation plans. The FEMA Analysis revealed that, following the issuance of NUREG-0022, impediments to evacuation were carefully studied by the Bioman Edisin Company, operator of the Pitgrim Nuclear Power Station, and a "affic management plan was developed to eliminate the problems where field in NUREG-0022, FEMA concludes that, after extensive analysis, the traffic management issues raised in NUREG-0022 have been adequately addressed by the Commonwealth of Massachusetts in accordance with proper emergency management standards and the exacuation time estimation methods now available.

CONCLUSION

In puttithery, the single issue remaining after issuance of my Interim Decision in this matter was the existence of potential bortlenecks to its fective evacuation of the EPZ for the Pilgrim facility. This matter has been examined by FEMA and it has been found that the traffic management issues have been adequately addressed by the Commonwealth of Massachusetts. Consequently, I conclude that evacuation planning

158

[&]quot;Minor: Euleum 1 - "Program Number Primer Noticem" (ESS-AR 5: 19-5-88: 542-63844) Interessables systematics as the British Discount (British Discount) through British against 19-581, 19-582

CONTRACTOR SECURITION AND ADDRESS.

including the associated traffic management, is adequate for the Pilgrim facility.

Accordingly, the remaining portion of Petitioner's request for action pursuant to 10 C F R § 2.206 is hereby denied. As provided by 10 C F R § 2.206 (c) a copy of this occision will be filed with the Secretary for the Commission's review.

Richard C DeVising, Director Office of Inspection and Enforcement

Danid at Berhesda, Maryland, this 3rd day of June 1984.

[The attachments have been omitted from this publication but may be found in the NRC Public Document Room, 1717 II Street, NW Washington, DC 20555.]

Cite as 20 NRC 161 (1984)

DD-84-16

UNITED STATES OF AMERICA NUCLEAR REGULATORY COMMISSION

OFFICE OF INSPECTION AND ENFORCEMENT

Richard C. DeYoung, Director

In the Matter of

Docket Nos. 50-413 50-414 (10 C F.R. § 2.206)

DUKE POWER COMPANY, et al. (Catawoa Nuclear Station, Units 1 and 2)

July 6, 1984

The Director of the Office of Inspection and Enforcement denies a petition filed by the Government Accountability Project on hehalf of the Palmetto Alliance which requested initiation of independent design, construction and management audits of Duke Power Company's construction of the Catawba Nuclear Station. In denying the requested rehel, the Director betermined that the quality assarance program for Catawba had not suffered a serious breakdown.

RULES OF PRACTICE: SECTION 2.206 PETITIONS

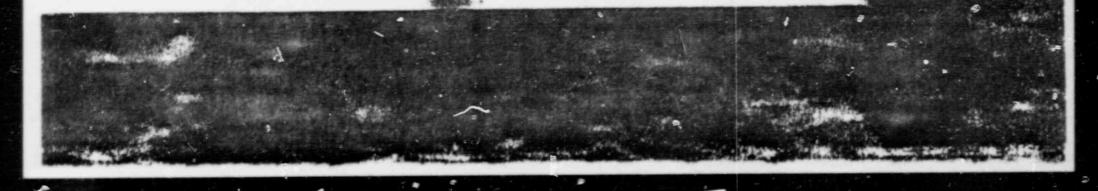
Although licensees are not required to respond to petitions under lift C.F.R. § 2.206 in the absence of a formal request by the staff under lift C.F.R. § 50.94(f) of § 182 of the Atomic Energy Act, licensees may respond to such petitions at their own volition.

PULES OF PRACTICE: SECTION 2.206 PETITIONS

A request for an investigation, particularly for an investigation of internal NRC personnel matters, does not fall squarely within the class of requests contemplated by 10 C.F.R. § 2.26.

160

161



including the associated traffic management, is adequate for the Pilgrim

Accordingly, the remaining portion of Petitioner's request for action pursuant to 10 C.F.R. § 2.206 is hereby denied. As provided by 10 CFR § 2.206(c) a copy of this decision will be filed with the Secretary for the Commission's review.

> Richard C DeYoung, Director Office of Inspection and Enforcement

Dated at Bethesda, Maryland, this 3rd day of June 1984.

The attachments have been omitted from this publication but may be found in the NRC Public Document Room, 1717 H Street, NW. Washington, DC 20555.1

Cite as 20 NRC 161 (1984)

DD-84-16

UNITED STATES OF AMERICA NUCLEAR REGULATORY COMMISSION

OFFICE OF INSPECTION AND ENFORCEMENT

Richard C. DeYoung, Director

In the Matter of

Docket Nos. 50-413 50-414 (10 C.F.R. (2 206)

DUKE POWER COMPANY, of al. (Catawba Nuclear Station, Units 1 and 2)

July 6, 1984

The Director of the Office of Inspection and Enforcement denies a petition filed by the Government Accountability Project on behalf of the Palmetto Alliance which requested initiation of independent design, construction and management audits of Duke Power Company's construction of the Catawba Nuclear Station. In denying the requested relief, the Director determined that the quality assurance program for Catawba had not suffered a serious breakdown.

RULES OF PRACTICE: SECTION 2.206 PETITIONS.

Although licensees are not required to respond to petitions under 10 CFR § 2.206 in the absence of a formal request by the staff under 10. C.F.R. § 50.54(f) of § 182 of the Atomic Energy Act, licensees may respond to such petitions at their own volition.

RULES OF PRACTICE: SECTION 2.206 PETITIONS

A request for an investigation, particularly for an investigation of internal NRC personnel matters, does not fall squarely within the class of requests contemplated by 10 C.F.R. § 2.276.











