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July 15, 1981

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In the Matter of
Metropolitan Edison Company
(Three Mile Island Nuclear Station, Unit No. 1)
Docket No. 50-289 (Restart)

Dear Chairman and Administrative
Judges Jordan and Little:

Enclosed please find Revised Appendices A and B, and Supplements to Appendices A and B, of the "NRC Staff's and Licensee's Joint Proposed Introductory Findings," (filed on May 6, 1981). The Supplements simply update Appendices A and B, which consist of listings of pre-filed testimony, documentary evidence incorporated into the record, and exhibits; the Revised Appendices incorporate the supplemental material and are thus comprehensive listings.

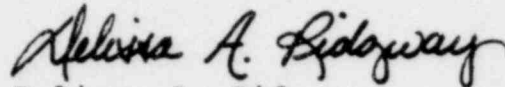
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SHAW, PITTMAN, POTTS & TROWBRIDGE

Ivan W. Smith, Esquire
Dr. Walter H. Jordan
Dr. Linda W. Little
July 15, 1981
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The enclosed materials were prepared solely by Licensee and have not been reviewed by the Staff.

Respectfully submitted,

A handwritten signature in cursive script, reading "Delissa A. Ridgway".

Delissa A. Ridgway
Counsel for Licensee

cc: Service List (attached)

July 15, 1981

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

In the Matter of)	
)	
METROPOLITAN EDISON COMPANY)	Docket No. 50-289
)	(Restart)
(Three Mile Island Nuclear)	
Station, Unit No. 1))	

CERTIFICATE OF SERVICE

I hereby certify that copies of "Revised Appendices A and B" and "Supplements to Appendices A and B" of the "NRC Staff's and Licensee's Joint Proposed Introductory Findings" were served upon the parties identified on the attached Service List by deposit in the United States mail, first class, postage prepaid, this 15th day of July, 1981.



Delissa A. Ridgway

Dated: July 15, 1981

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

In the Matter of)	
)	
METROPOLITAN EDISON COMPANY)	Docket No. 50-289
)	(Restart)
(Three Mile Island Nuclear)	
Station, Unit No. 1))	

SERVICE LIST

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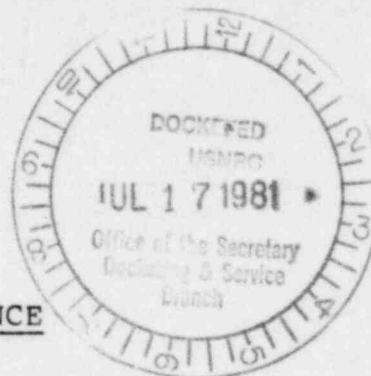
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APPENDIX A

SUPPLEMENT 1

WRITTEN TESTIMONY RECEIVED INTO EVIDENCE



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Zoltan R. Rosztoczy Relative to Environmental
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Professional Qualifications, Raymond W. Klecker	21418
Chart, temperature and pressure plot for TMI-1 0.44 ft. ² core flood line break	21954
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APPENDIX B

SUPPLEMENT 1

EXHIBITS

<u>EXHIBIT NUMBER</u>	<u>DESCRIPTION</u>	<u>IDENTIFIED AT TRANS- SCRIPT PAGE</u>	<u>ADMITTED AT TRANSCRIPT PAGE</u>
Board Ex. 7	Cumberland County Ra- diological Emergency Response Plan dated April 28, 1981	21812	21813
Board Ex. 3	Lancaster County Ra- diological Emergency Response Plan dated March 20, 1981	21812	21813
Board Ex. 9	Lebanon County Radio- logical Emergency Re- sponse Plan dated April 21, 1981	21813	21813
Board Ex. 10	Letter dated June 10, 1981 to Board members from J.M. Cutchin, NRC, with attached "NRC Staff Report on Licensee's Commitments that the Staff Will Not Attempt to Enforce" and affidavit of R. Jacobs dated June 9, 1981	22165	22165
Board Ex. 11	FEMA Proposed Rule, 44 CRF 350, 45 Federal Register 42341, dated June 24, 1980	22639	22639
Board Ex. 12	FEMA - NRC Memorandum of Understanding	22643	22643
Board Ex. 13	Municipal Emergency Plans	22995	22996
Lic. Ex. 53	Letter dated January 19, 1981 to All Licensees of Operating Plants and Applicants for Operat- ing Licenses and Holders	22110	22112

<u>EXHIBIT NUMBER</u>	<u>DESCRIPTION</u>	<u>IDENTIFIED AT TRANS- SCRIPT PAGE</u>	<u>ADMITTED AT TRANSCRIPT PAGE</u>
	of Construction Permits from D.G. Eisenhut, NRC, "Information Regarding the Program for Environ- mental Qualification of Safety-Related Electrical Equipment (Generic Letter 81-05)"		
Lic. Ex. 54	IE Bulletin 77-05, Electrical Connector Assemblies, November 8, 1977	22161	22161
Lic. Ex. 55	IE Bulletin 77-05A, Electrical Connector Assemblies, November 15, 1977	22161	22161
Lic. Ex. 56	Letter dated June 22, 1981 to R. Adler, Commonwealth, from E.L. Blake, re Licensee's commitments on management (training)	22166	22176
Lic. Ex. 57	Affidavit of Henry D. Hukill, dated July 7, 1981, re Qualifications of TMI-1 Radwaste Engineer	22587	22587
Lic. Ex. 58	Letter dated July 8, 1981 to J. Gray, NRC, from R. E. Zahler, re Licensee's commitment on the staffing of the EOF	22934	22934
Lic. Ex. 59	Letter dated July 7, 1981 to R. Adler, Commonwealth, from E. L. Blake, re Licensee commitments on management (operational staffing)	23003	23003

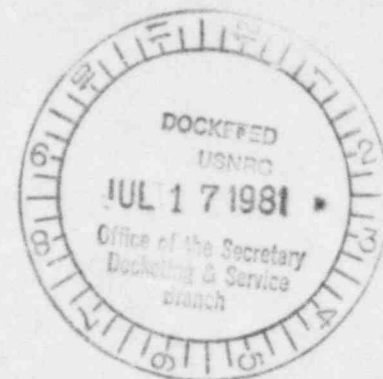
<u>EXHIBIT NUMBER</u>	<u>DESCRIPTION</u>	<u>IDENTIFIED AT TRANS- SCRIPT PAGE</u>	<u>ADMITTED AT TRANSCRIPT PAGE</u>
Staff Ex. 16	System Component Evaluation Worksheets (excerpts from Licensee's submittal in response to I&E Bulletin 79-01B, as referenced in Licensee's May 18, 1981 letter, ff. Tr. 21867)	21872	22162
Staff Ex. 17	Affidavit of Stephen Chesnut on Closeout Inspection on 30 Health Physics-Emergency Planning Significant Findings from Inspection 50-289/80-22, on Licensee's Shift Manning Using One Licensed Senior Reactor Operator Rather Than Two and on Containment High Range Monitors for Emergency Response	22234	22234
Staff Ex. 18	Memorandum dated June 16, 1981 to B. K. Grimes, NRC, from R. T. Jaske, FEMA, containing "[FEMA] Interim Findings and Determinations Relating to the Status of State and Local Emergency Preparedness around Three Mile Island (TMI) Fixed Nuclear Facility"	22511	22512
Staff Ex. 19	"FEMA Responses to Licensing Board Questions on Extent to Which Panic and Psychological Stress Were Factored into NUREG-0654/FEMA-REP-1, on Data on Persons Who Panic in Disaster Situations, and on	22513	22513

<u>EXHIBIT NUMBER</u>	<u>DESCRIPTION</u>	<u>IDENTIFIED AT TRANS- SCRIPT PAGE</u>	<u>ADMITTED AT TRANSCRIPT PAGE</u>
	Documentation Available to FEMA on Extent to Which Evacuees Respond to Instructions Perceived to be Contrary to Their Best Interests"		
Staff Ex. 20	Attachment 1 to FEMA's Interim Findings and Determinations of June 16, 1981: Pennsylvania REP Exercise Site - Specific to TMI - Observations and Recommendations	22514	22514
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Staff Ex. 22	Brief Summary of the [FEMA] Guidance Memorandum Series for Use as an Index, dated December 15, 1980	22591	22593
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ANGRY Ex. 4	Statement dated 5/14/81 of Steven A. Forry, Emer- gency Management Director, Newberry Township	21666	REJECTED, 21668

<u>EXHIBIT NUMBER</u>	<u>DESCRIPTION</u>	<u>IDENTIFIED AT TRANS- SCRIPT PAGE</u>	<u>ADMITTED AT TRANSCRIPT PAGE</u>
ANGRY Ex. 5	"Direct Testimony of Dr. Jan Beyea on Behalf of the Anti-Nuclear Group Representing York Regarding A.N.G.R.Y. Contention No. V(D)	21672	REJECTED, 11024 21672
ANGRY Ex. 6	Letter dated May 11, 1981, from Paul L. Schaeffer, Emergency Management Coordinator, Manchester Township	21824	REJECTED, 21824
ANGRY Ex. 7	Letter dated April 13, 1981 from Frank von Hippel to Alden McLellan	21828	REJECTED, 21828
Newberry Ex. 1	"Intervenors' Rebuttal Testimony of Raymond Goldsteen Pertaining to the Impact of Psychological Stress Upon the Site Area as it Concerns Emergency Preparedness"	71675	REJECTED, 21675-76
TMIA Ex. 49	Report Prepared by the Majority Staff of the House Committee on Interior and Insular Affairs on the Reporting of Information Concerning the Accident at Three Mile Island	22999	REJECTED, 23000
TMIA Ex. 50	Memorandum Report by Edward C. Abbott, ACRS Senior Fellow, and accompanying descriptive TMIA Motion to Require Further Development of the Record	23000	REJECTED, 23002
UCS Ex. 33	Letter dated October 31, 1980 from H.D. Hukill, Metropolitan Edison Co., to B.H. Grier, NRC, Response to IE Bulletin 79-01B	21168	21170

<u>EXHIBIT NUMBER</u>	<u>DESCRIPTION</u>	<u>IDENTIFIED AT TRANS- SCRIPT PAGE</u>	<u>ADMITTED AT TRANSCRIPT PAGE</u>
UCS Ex. 34	Letter dated January 30, 1980 from H.D. Hukill, Metropolitan Edison Co., to B.H. Grier, NRC, Supplemental Response to IE Bulletin 79-01B	21169	21170
UCS Ex. 35	Memorandum dated May 8, 1981 to TMI-1 Atomic Safety and Licensing Board from D.G. Eisenhut, NRC, Board Notification - Thermal Shock to PWR Reactor Pressure Vessels (BN-81-06) and attachments	21458	21459
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UCS Ex. 37	IE Bulletin 79-01B dated January 14, 1980 [and supplements thereto]	21873	22350
UCS Ex. 38	Master List, Three Mile Island Unit 1, Docket No. 50-289, Class 1E Electrical Equipment Required to Function Under Postulated Accident Conditions	21874	22057
UCS Ex. 39	Eighty-four page excerpt from Licensee's submittal in response to IE Bulletin 79-01B (System Component Evaluation Worksheets)	21874	TO BE NEGOTIATED, (See 22076 and 23105-06)
UCS Ex. 40	Letter dated March 24, 1981 to H.D. Hukill, Metropolitan Edison Co., from J.F. Stoltz, NRC, enclosing Staff evaluation, "Environmental Qualification of Safety-Related Equipment" and revision dated April 23, 1981	21876	22086

<u>EXHIBIT NUMBER</u>	<u>DESCRIPTION</u>	<u>IDENTIFIED AT TRANS- SCRIPT PAGE</u>	<u>ADMITTED AT TRANSCRIPT PAGE</u>
UCS Ex. 41	Letter dated March 12, 1981 to T.M. Novak, NRC, from H.D. Hukill, Metro- politan Edison Co., regarding review of Staff preliminary list of defi- ciencies for environ- mental qualification of safety-related electrical equipment	21968	22079
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UCS Ex. 44	NUREG/CR-1682, SAND80- 1957, "Electrical Insulators in a Reactor Accident Environment," January, 1981	22016	REJECTED, 22084



REVISED APPENDIX A
WRITTEN TESTIMONY RECEIVED INTO EVIDENCE

Witness

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DOCUMENTARY EVIDENCE INCORPORATED INTO RECORD

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EXHIBITS

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Board Ex. 2.a.	TMI Nuclear Station Work Request Approval (TMI-19, 2-74)	3740	3740
Board Ex. 2.b.	Work Request Approval- TMI Nuclear Station (AP 1016, Sect. 6.0; Att. #11, Rev. 5)	3741	3741
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Board Ex. 2.g.	Generation Corrective Maintenance System Job Ticket From (Work Request) Three Mile Island, Unit 1.	3743	3743
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Board Ex. 3.	"Criteria for Preparation and Evaluation of Radio- logical Emergency Response Plans and Preparedness in Support of Nuclear Power Plants," NUREG-0654, Appendix 5	4463	4463

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Board Ex. 4	NUREG-0565, "Generic Evaluation of Small Break Loss of Coolant Accident Behavior in Babcock & Wilcox Designed 177-FA Operating Plants"	5613	5613
Board Ex. 5	Draft, York County Radio- logical Emergency Response Plan for Incidents at the Three Mile Island Nuclear Power Station, April 14, 1981.	20790	20790
Board Ex. 6	Draft, Dauphin County Radio- logical Emergency Response Plan for Incidents at the Three Mile Island Nuclear Power Station, April 7, 1981.	20791	20791
Board Ex. 7	Cumberland County Ra- diological Emergency Response Plan dated April 28, 1981	21812	21813
Board Ex. 8	Lancaster County Ra- diological Emergency Response Plan dated March 20, 1981	21812	21813
Board Ex. 9	Lebanon County Radio- logical Emergency Re- sponse Plan dated April 21, 1981	21813	21813

<u>EXHIBIT NUMBER</u>	<u>DESCRIPTION</u>	<u>IDENTIFIED AT TRANSCRIPT PAGE</u>	<u>ADMITTED AT TRANSCRIPT PAGE</u>
Board Ex. 10	Letter dated June 10, 1981 to Board members from J.M. Cutchin, NRC, with attached "NRC Staff Report on Licensee's Commitments that the Staff Will Not Attempt to Enforce" and affidavit of R. Jacobs dated June 9, 1981	22165	22165
Board Ex. 11	FEMA Proposed Rule, 44 CRF 350, 45 Federal Register 42341, dated June 24, 1980	22639	22639
Board Ex. 12	FEMA - NRC Memorandum of Understanding	22643	22643
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Board Physical Ex. A	Three Mile Island Nuclear Power Station, Middletown, PA; 50-Mile Radius Area Population Density Map; 1977 Estimate, by Census County Subdivision. July 1980, U.S. Geological Survey	19373	19373
Board Physical Ex. B	Land Use and Land Cover Map, Harrisburg, PA. 1972, U.S. Geological Survey	19373	19373

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Board Physical Ex. D	Three Mile Island Nuclear Power Station, Middletown, PA; 20-Mile Radius Popula- tion Density Map; 1977 Esti- mate by Census County Sub- division. July 1980, U.S. Geological Survey	19373	19373
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Lic. Ex. 2	Definitions of Recommended Priorities	4136	4136
Lic. Ex. 3	Topical Report, BAW-10103A, Rev. 3, "ECCS Analysis of B&W's 177-FA Lowered Loop NSSS," July 1977	5039	5105

<u>EXHIBIT NUMBER</u>	<u>DESCRIPTION</u>	<u>IDENTIFIED AT TRANSCRIPT PAGE</u>	<u>ADMITTED AT TRANSCRIPT PAGE</u>
Lic. Ex. 4	Letter dated July 18, 1978 from J.H. Taylor, Babcock & Wilcox, to S.A. Varga, NRC, attaching additional ECCS small break analyses	5040	5105
Lic. Ex. 5	"Evaluation of Transient Behavior and Small Reactor Coolant System Breaks in the 177 Fuel Assembly Plant," Vol. I, Sect. 6, "Small Break Analyses," May 7, 1979	5040	5105
Lic. Ex. 6	"Small Break in the Pressurizer (PORV) with No Auxiliary Feedwater and Single Failure of the ECCS," Supp. 1 to the May 7, 1979 Small Break Analyses, (May 12, 1979)	5040	5105
Lic. Ex. 7	"Small Break in the Pressurizer (PORV) with No Auxiliary Feedwater and Single Failure of the ECCS with Realistic Decay Heat," Supp. 2 to the May 7, 1979 Small Break Analyses (May 12, 1979)	5041	5105
Lic. Ex. 8	"Auxiliary Feedwater Flow Required for LOCA," Supp. 3 to the May 7, 1979 Small Break Analyses (May 14, 1979)	5041	5105

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Lic. Ex. 9	B&W Document 86-1103585-00 "System Response to Total Loss of SG Heat Sink," (August 7, 1979)	5041	5105
Lic. Ex. 10	Report, "Analysis Summary in Support of an Early RC Pump Trip," (August 21, 1979)	5042	5105
Lic. Ex. 11	"Supplemental Small Break Analysis," Supplement to the August 21, 1979 Analysis in Support of an Early RC Pump Trip (September 12, 1979)	5042	5105
Lic. Ex. 12	B&W Document 69-1106001-00 "Small Break Operating Guidelines," November, 1979	5042	5105
Lic. Ex. 13	B&W Document 86-1117679-000 "Small Break with Failed PORV," (February 11, 1980)	5042	5105
Lic. Ex. 14	Figure 6-1, TMI-1 FSAR "Simplified Schematic Diagram of Engineered Safe- guards System for Core & Building Protection."	5049	5105
Lic. Ex. 15	"TMI Emergency Feedwater System" (except outline)	5643	5645
Lic. Ex. 16	IEEE-279(1971)	6466	6587

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Lic. Ex. 17	Simplified Schematic of TMI Unit 1	6954	16603
Lic. Ex. 18	BAW-1564 "Integrated Control System Reliability Analysis," August, 1979	6988	6988
Lic. Ex. 19	Diagram, Electrical Supply to ICS/NNI System	7010	7022
Lic. Ex. 20	UCS's Answer to Interrogatory 14-1, Licensee's First Set of Interrogatories, March 17, 1980	8131	
Lic. Ex. 21	Excerpt from the Deposition of Robert D. Pollard, April 11, 1980	8232	
Lic. Ex. 22	IEEE Standard 384-1977, "Criteria for Independence of Class 1E Equipment and Circuits"	9112	9481
Lic. Ex. 23	"A Review of the Three Mile Island Unit 1 Control Room from a Human Factors View- point," December, 1980	10235	10236
Lic. Ex. 24	Excerpts from the testimony of Bruce A. Wilson given on May 12, 1980 in the matter of Sacramento Municipal	10852	

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	Utility District, Rancho Seco Nuclear Generating Sta- tion, Docket No. 50-312		
Lic. Ex. 25	Excerpts from the NRC Staff's Proposed Findings of Fact and Conclusions of Law in the form of an Initial Decision, submit- ted in the Matter of Sac- ramento Municipal Utility District, Rancho Seco Nuc- lear Generating Station, Docket No. 50-312, August 22, 1980	10855	
Lic. Ex. 26-A-K	Statements of Professional Qualifications of the Members of the TMI-1 GORB	12119	12119
Lic. Ex. 27	"Report of TMI-1 Operator Accelerated Retraining Program Review Committee," June 1, 1980	12412	12412
Lic. Ex. 28	"Licensee's Response to Board Questions Concerning 10,000 Gallon Spill at TMI-1 in June, 1980"	13434	13434
Lic. Ex. 29	"Licensee's Response to the Board Question Con- cerning Maintenance Practices in the Sample Year, 1978"	13661	13661

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Lic. Ex. 30	GPU Nuclear Emergency Plan for TMI-1, Revision 3, January 1981	13759	13759
Lic. Ex. 31	Three Mile Island Nuclear Station, Unit No. 1, Administrative Procedure 1053, Emergency Equipment Readiness, Revision 0, Dated January 7, 1981	14839	14839
Lic. Ex. 32a	Letter dated January 29, 1981 from Bernard J. Snyder, NRC, to Gale Hovey, Metropolitan Edison Co., enclosing Amendment No. 12 to License DPR-73 (Three Mile Island, Unit 2)	15317	15317
Lic. Ex. 32b	Letter dated February 3, 1981 from G.K. Hovey, Metropolitan Edison Co., to Lake Barrett, NRC, regarding reserve waste water tankage for Three Mile Island, Unit 2	15317	15317
Lic. Ex. 33	Letter dated January 21, 1981 from H.D. Hukill, Metropolitan Edison Co., to R.W. Reid, NRC, regarding Human Factors Engineering (response to NUREG- 0752)	15547	15547
Lic. Ex. 34	"Operating Reactors 0737 1-1-81 Responses, Status as of 1-09-81"	15968	16040

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Lic. Ex. 35	Letter dated December 1980 from Southern California Edison Co., to D.M. Crutchfield, NRC, Response to NUREG-0737, II.F.2, for San Onofre 1	15970	16040
Lic. Ex. 36	Letter dated January 2, 1981 from W.O. Parker, Duke Power Co., to H.R. Denton, NRC, Response to NUREG-0737, II.F.2, for Oconee 1, 2 and 3	15972	16040
Lic. Ex. 37	Letter dated December 15, 1980 from J.J. Mattimoe, SMUD, to D.G. Eisenhut, NRC, Response to NUREG-0737, II.F.2, for Rancho Seco	15973	16040
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Lic. Ex. 40	Letter dated December 15, 1980, from Baltimore Gas & Electric Co., to D.G. Eisenhut, NRC, Response to NUREG-0737, II.F.2, for Calvert Cliffs 1 and 2	15980	16040

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Lic. Ex. 41	Letter dated December 19, 1980 from Consumers Power Co. to D.M. Crutchfield, NRC, Response to NUREG-0737, II.F.2, for Palisades	15982	16040
Lic. Ex. 42	Letter dated January 5, 1981 from Wisconsin Public Service Corp. to D.G. Eisenhut, NRC, Response to NUREG-0737, II.F.2, for Kewaunee	15984	16040
Lic. Ex. 43	Letter dated July 2, 1980 from L.D. White, Rochester Gas and Electric Corp., to D.M. Crutchfield, NRC, regarding reactor vessel level instrumentation for R.E. Ginna plant	15985	16040
Lic. Ex. 44	Letter dated December 15, 1980 from J.E. Maier, Rochester Gas and Electric Corp., to D.M. Crutchfield, NRC, Response to NUREG-0737, II.F.2, for R.E. Ginna	15985	16040
Lic. Ex. 45	Emergency Procedure 1202-4, Reactor Trip; Revision 20, 3/13/81	16570	16604
Lic. Ex. 46	Emergency Procedure 1202-5, OTSG Tube Leak/Rupture; Revision 11, 2/25/81	16571	

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Lic. Ex. 47	Emergency Procedure 1202-6A, Loss of Reactor Coolant/Reactor Coolant Pressure Within Capability of Makeup System (RC Pressure Above ESAS Setpoint); Revision 8, 3/13/81	16571	16604
Lic. Ex. 48	Emergency Procedure 1202-6B, Loss of Reactor Coolant Pres- sure (Small Break LOCA) Causing Automatic High Pressure Injection; Revision 7, 3/19/81	16571	16604
Lic. Ex. 49	Emergency Procedure 1202-26A, Loss of Steam Generator Feed to Both OTSG's; Revision 12, 3/13/81	16571	16604
Lic. Ex. 50	Emergency Procedure 1202-29, Pressurizer System Failure; Revision 15, 3/13/81	16572	16604
Lic. Ex. 51	Emergency Procedure 1202-39, Inadequate Core Cooling (No LOCA); Revision 4, 3/13/81	16572	16604
Lic. Ex. 52	"Evacuation Time Estimates for the Plume Exposure Pathway EPZ of Three Mile Island Nuclear Generating Facility," 3/3/81	17406	17408
Lic. Ex. 53	Letter dated January 19, 1981 to All Licensees	22110	22112

<u>EXHIBIT NUMBER</u>	<u>DESCRIPTION</u>	<u>IDENTIFIED AT TRANSCRIPT PAGE</u>	<u>ADMITTED AT TRANSCRIPT PAGE</u>
	of Operating Plants and Applicants for Operating Licenses and Holders of Construction Permits from D.G. Eisenhut, NRC, "Information Regarding the Program for Environmental Qualification of Safety-Related Electrical Equipment (Generic Letter 81-05)"		
Lic. Ex. 54	IE Bulletin 77-05, Electrical Connector Assemblies, November 8, 1977	22161	22161
Lic. Ex. 55	IE Bulletin 77-05A, Electrical Connector Assemblies, November 15, 1977	22161	22161
Lic. Ex. 56	Letter dated June 22, 1981 to R. Adler, Commonwealth, from E.L. Blake, re Licensee's commitments on management (training)	22166	22176
Lic. Ex. 57	Affidavit of Henry D. Hukill, dated July 7, 1981, re Qualifications of TMI-1 Radwaste Engineer	22587	22587

<u>EXHIBIT NUMBER</u>	<u>DESCRIPTION</u>	<u>IDENTIFIED AT TRANSCRIPT PAGE</u>	<u>ADMITTED AT TRANSCRIPT PAGE</u>
Lic. Ex. 58	Letter dated July 8, 1981 to J. Gray, NRC, from R. E. Zahler, re Licensee's commitment on the staffing of the EOF	22934	22934
Lic. Ex. 59	Letter dated July 7, 1981 to R. Adler, Commonwealth, from E. L. Blake, re Licensee commitments on management (operational staffing)	23003	23003

<u>EXHIBIT NUMBER</u>	<u>DESCRIPTION</u>	<u>IDENTIFIED AT TRANSCRIPT PAGE</u>	<u>ADMITTED AT TRANSCRIPT PAGE</u>
Commonwealth Ex. 1	Pages 59 through 67, "Three Mile Island, A Report to the Commissioners and to the Public", NRC Special Inquiry Group, Mitchell Rogovin, Director	16194	16200
Commonwealth Ex. 2.a.	Commonwealth of Pennsylvania Disaster Operations Plan, Annex E, Fixed Nuclear Facility Incidents, dated February 23, 1981	17814	17815
	Revised Appendix 7 to the Commonwealth of Pennsylvania Disaster Operations Plan, Annex E, Fixed Nuclear Facility Incidents, dated February 23, 1981	20400	20400
Commonwealth Ex. 2.b.	Map, excerpt of the Commonwealth of Pennsylvania Disaster Operations Plan, Annex E, Fixed Nuclear Facility Incidents, dated February 23, 1981	17814	17815
Commonwealth Ex. 3	Commonwealth of Pennsylvania brochure entitled "Emergency Information: What You Should Know About Nuclear Radiation Incidents", issued 11/79	18072	18208

<u>EXHIBIT NUMBER</u>	<u>DESCRIPTION</u>	<u>IDENTIFIED AT TRANSCRIPT PAGE</u>	<u>ADMITTED AT TRANSCRIPT PAGE</u>
Commonwealth Ex. 4	Lancaster County brochure entitled "Emergency In- formation for Lancaster County"	18073	18208
Commonwealth Ex. 5	York County brochure en- titled "Emergency Infor- mation for York County"	18074	18208
Commonwealth Ex. 6	Commonwealth's TMI Fault Tree Procedures	18580	18912
Commonwealth Ex. 7	Dauphin County brochure entitled "Emergency Infor- mation for Dauphin County"	19683	19683
Staff Ex. 1	NUREG-0680, "TMI-1 Re- start Evaluation of Li- censee's Compliance with the Short and Long Term Items of Section II of NRC Order Dated August 9, 1979 Metropolitan Edison Com- pany, et al., Three Mile Island Nuclear Station Unit 1, Docket No. 50-289"	6036	20122
Staff Ex. 2	NUREG-0752, "Control Room Design Review Report for TMI-1"	10453	10454
Staff Ex. 3	"TMI-1 Potential Core Dam- age Accident Sequences and Preventive and Mitigative Measures"	11226	11228

<u>EXHIBIT NUMBER</u>	<u>DESCRIPTION</u>	<u>IDENTIFIED AT TRANSCRIPT PAGE</u>	<u>ADMITTED AT TRANSCRIPT PAGE</u>
Staff Ex. 4	NUREG-0680, Supplement No. 1	11941	11941
Staff Ex. 5	NUREG-0760, "Investigation into Information Flow During the Accident at Three Mile Island"	13075	13075
Staff Ex. 6	NUREG-0746, "Emergency Preparedness Evaluation for TMI-1"	15009	15009
Staff Ex. 7	NUREG-0654, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants"	15010	15010
Staff Ex. 8	NUREG-0696, "Functional Criteria for Emergency Response Facilities" with attached letter dated March 5, 1981 from Darrell G. Eisenhut to all licensees of operating plants and holders of construction permits (Generic Letter No. 17)	15433	15433
Staff Ex. 9	Chart, "Actions Currently Being Implemented at TMI-1 that Address the Substance of the NUREG-0667 Recommen- dations"	15803	15803

<u>EXHIBIT NUMBER</u>	<u>DESCRIPTION</u>	<u>IDENTIFIED AT TRANSCRIPT PAGE</u>	<u>ADMITTED AT TRANSCRIPT PAGE</u>
Staff Ex. 10	NUREG-0728, "Report to Congress: NRC Incident Response Plan", September 1980	16109	16110
Staff Ex. 11	Letter dated April 22, 1981 from John F. Stoltz, NRC, to H.D. Hukill, Metropolitan Edison Co., with attached "Safety Evaluation Reports for Items Contained in NUREG-0694 Outside of the Context of the Commission's Orders of August 9, 1979 and March 6, 1980 Required by Restart (October 1981)"	20120	20122
Staff Ex. 12	Letter dated April 22, 1981 from John F. Stoltz, NRC, to H.D. Hukill, Metropolitan Edison Co., with attached "Safety Evaluation Reports for Items Contained in Enclosure 1 to NUREG-0737, Outside of the Scope of the Commission's Orders of August 9, 1979 and March 6, 1980, Required by Restart (October 1981)"	20121	20122
Staff Ex. 13	NUREG-0680, Supplement No. 2	20121	20122
Staff Ex. 14	NUREG-0680, Supplement No. 3	20121	20122

<u>EXHIBIT NUMBER</u>	<u>DESCRIPTION</u>	<u>IDENTIFIED AT TRANSCRIPT PAGE</u>	<u>ADMITTED AT TRANSCRIPT PAGE</u>
Staff Ex. 15	NUREG-0752, Supplement No. 1	20123	20123
Staff Ex. 16	System Component Evaluation Worksheets (excerpts from Licensee's submittal in response to I&E Bulletin 79-01B, as referenced in Licensee's May 18, 1981 letter, ff. Tr. 21867)	21872	22162
Staff Ex. 17	Affidavit of Stephen Chesnut on Closeout Inspection on 30 Health Physics-Emergency Planning Significant Findings from Inspection 50-289/80-22, on Licensee's Shift Manning Using One Licensed Senior Reactor Operator Rather Than Two and on Containment High Range Monitors for Emergency Response	22234	22234
Staff Ex. 18	Memorandum dated June 16, 1981 to B. K. Grimes, NRC, from R. T. Jaske, FEMA, containing "[FEMA] Interim Findings and Determinations Relating to the Status of State and Local	22511	22512

<u>EXHIBIT NUMBER</u>	<u>DESCRIPTION</u>	<u>IDENTIFIED AT TRANSCRIPT PAGE</u>	<u>ADMITTED AT TRANSCRIPT PAGE</u>
	Emergency Preparedness around Three Mile Island (TMI) Fixed Nuclear Facility"		
Staff Ex. 19	"FEMA Responses to Licensing Board Questions on Extent to Which Panic and Psychological Stress Were Factored into NUREG-0654/FEMA-REP-1, on Data on Persons Who Panic in Disaster Situations, and on Documentation Available to FEMA on Extent to Which Evacuees Respond to Instructions Perceived to be Contrary to Their Best Interests"	22513	22513
Staff Ex. 20	Attachment 1 to FEMA's Interim Findings and Determinations of June 16, 1981: Pennsylvania REP Exercise Site - Specific to TMI - Observations and Recommendations	22514	22514

<u>EXHIBIT NUMBER</u>	<u>DESCRIPTION</u>	<u>IDENTIFIED AT TRANSCRIPT PAGE</u>	<u>ADMITTED AT TRANSCRIPT PAGE</u>
Staff Ex. 21	Attachment 2 to FEMA's Interim Findings and Determinations of June 16, 1981: Update of May 14, 1981 "Review of Pennsylvania Planning Site - Specific to TMI"	22515	22515
Staff Ex. 22	Brief Summary of the [FEMA] Guidance Memorandum Series for Use as an Index, dated December 15, 1980	22591	22593
Staff Ex. 23	NUREG-0746, Supplement No. 1	22879	22879
Aamodt Ex. 1	Memorandum, "Table for Radar Ordinance in a Vertical Plan," dated November 17, 1952	13201	13201
Aamodt Ex. 2	M.S. Aamodt report dated February 15, 1954 regarding dialing errors	13201	13201
Aamodt Ex. 3	Memorandum dated June 30, 1955, "Preference Study of Seven-Digit All Numeral Dialing Used by Subscribers in Actual Telephone Use in their Homes, Case 38933"	13201	13201

<u>EXHIBIT NUMBER</u>	<u>DESCRIPTION</u>	<u>IDENTIFIED AT TRANSCRIPT PAGE</u>	<u>ADMITTED AT TRANSCRIPT PAGE</u>
Aamodt Ex. 4	Dr. Molholt's Testimony with Appendices 1, 2 and 3 and technical qualifications	14111	REJECTED, 14111
Aamodt Ex. 5	TMI-1 Emergency Plan Procedure No. 1004 (Rev. 1, Sec. 2, 1/16/78), pages 5.0, 6.0, 7.0, 8.0	14704	*
<hr/> <p>* Aamodt Ex. 5 has not been admitted and will not be admitted until the necessary number of copies are provided. Tr. 14,106.</p>			
Aamodt Ex. 6	Letter dated April 21, 1981 from Guy R. Hodge to Marjorie Aamodt with attached pages 129- 133 and 140 of FEMA report, "Evacuation Planning in the TMI Accident," dated Janu- ary 1980	20327 20377	REJECTED, 20331
ANGRY Ex. 1	Three Mile Island Public In- terest Resource Center doc- ument dated October 28, 1980, entitled, "Published Findings Related to the Management Competence of Metropolitan Edison Co."	20653	REJECTED, 20653
ANGRY Ex. 2	Letter dated February 4, 1980 from J.G. Herbein,	13815	

<u>EXHIBIT NUMBER</u>	<u>DESCRIPTION</u>	<u>IDENTIFIED AT TRANSCRIPT PAGE</u>	<u>ADMITTED AT TRANSCRIPT PAGE</u>
	Metropolitan Edison Co., to B.K. Grimes, NRC, enclosing Pennsylvania DOT evacuation study		
ANGRY Ex. 3	York County Public School Map	21522	21669 LIMITED, 21821
ANGRY Ex. 4	Statement dated 5/14/81 of Steven A. Forry, Emer- gency Management Director, Newberry Township	21666	REJECTED, 21668
ANGRY Ex. 5	"Direct Testimony of Dr. Jan Beyea on Behalf of the Anti-Nuclear Group Representing York Regard- ing A.N.G.R.Y. Contention No. V(D)	21672	REJECTED, 11024 21672
ANGRY Ex. 6	Letter dated May 11, 1981, from Paul L. Schaeffer, Emergency Management Coordinator, Manches- ter Township	21824	REJECTED, 21824
ANGRY Ex. 7	Letter dated April 13, 1981 from Frank von Hippel to Alden McLellan	21828	REJECTED, 21828

<u>EXHIBIT NUMBER</u>	<u>DESCRIPTION</u>	<u>IDENTIFIED AT TRANSCRIPT PAGE</u>	<u>ADMITTED AT TRANSCRIPT PAGE</u>
Newberry Ex. 1	"Intervenors' Rebuttal Testimony of Raymond Goldsteen Pertaining to the Impact of Psycho- logical Stress Upon the Site Area as it Concerns Emergency Preparedness"	71675	REJECTED, 21675-76
Sholly Ex. 1	December 19, 1979 from D.F. Thatcher Sum- marizing Meeting of October 23, 1979 regarding the Babcock & Wilcox ICS Reliability Analysis	7124	7124
Sholly Ex. 2	Oak Ridge National Labora- tory Review Report.	7099	7124

<u>EXHIBIT NUMBER</u>	<u>DESCRIPTION</u>	<u>IDENTIFIED AT TRANSCRIPT PAGE</u>	<u>ADMITTED AT TRANSCRIPT PAGE</u>
Sholly Ex. 3	EPRI Report NP-1118, "Human Factors Methods for Nuclear Control Room Design," Volume 1, "Human Factors Enhancement of Existing Nuclear Control Rooms," November, 1979	10307	
TMIA Ex. 1	Summary - Work Requests deferred in excess of one year	3313	REJECTED, 3364
TMIA Ex. 2	Summary - major purging of 11/5/79, 11/6/79 & 12/3/79	3313	REJECTED, 3364
TMIA Ex. 3	Summary - 'tacked' Work Requests deferred in excess of one year	3314	REJECTED, 3364
TMIA Ex. 4	Summary - Work Requests not signed-off within one year	3314	REJECTED, 3364
TMIA Ex. 5	Summary - QC/QA not performed within one year	3314	REJECTED, 3364
TMIA Ex. 6	Summary - Ross leak list	3314	
TMIA Ex. 7	Summary - Work Requests cancelled after one year	3314	REJECTED, 3364
TMIA Ex. 8	Work Request 19660	2961	WITHDRAWN, 3023

<u>EXHIBIT NUMBER</u>	<u>DESCRIPTION</u>	<u>IDENTIFIED AT TRANSCRIPT PAGE</u>	<u>ADMITTED AT TRANSCRIPT PAGE</u>
TMIA Ex. 9	Corrective Maintenance Com- ponent History Report	3371	WITHDRAWN, 4133
TMIA Ex. 10	Corrective Maintenance Job Ticket Master Report	3371	WITHDRAWN, 4133
TMIA Ex. 11	Work Request 21910	3452	
TMIA Ex. 12	Work Request 18471	3477	3494
TMIA Ex. 13	Work Request 23310	3495	3500
TMIA Ex. 14	Work Request 16879	3500- 3501	REJECTED, 3509
TMIA Ex. 15	Work Request 20856	3510	3510
TMIA Ex. 16	Work Request 15350	3521- 3522	3532
TMIA Ex. 17a	Work Request 23579	3545	3578
TMIA Ex. 17b	Work Request 23858	3546	3578
TMIA Ex. 17c	Work Request 24252	3546	3578
TMIA Ex. 17d	Work Request 25056	3546	3578
TMIA Ex. 17e	Work Request 25124	3546	3578
TMIA Ex. 17f	Work Request 25129	3546	3578

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TMIA Ex. 18	Work Request 18626	3558	3578
TMIA Ex. 19	Work Request 19590	3578	3580
TMIA Ex. 20	Work Request 22181	3584	3592
TMIA Ex. 21	Work Request 22268	3592- 3593	3602
TMIA Ex. 22	Work Request 25166	3593	3602
TMIA Ex. 23	Work Request 24246	3617	3620
TMIA Ex. 24a	Work Request C0516	3631	WITHDRAWN, 3638
TMIA Ex. 24b	Work Request 24972	3631	WITHDRAWN, 3638
TMIA Ex. 24c	Work Request 25170	3631	WITHDRAWN, 3638
TMIA Ex. 25	Work Request 23224	3640	REJECTED, 3786
TMIA Ex. 26	Work Request 23814	3643	REJECTED, 3652
TMIA Ex. 27	Work Request 16212	3643- 3644	REJECTED, 3652
TMIA Ex. 28	Work Request 15349	3652	3666
TMIA Ex. 29a	Work Request 20717	3670	REJECTED, 3675
TMIA Ex. 29b	Work Request 21187	3670	REJECTED, 3675
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TMIA Ex. 30a	Work Request 22571	3686	WITHDRAWN, 3690
TMIA Ex. 30b	Work Request 22572	3686	WITHDRAWN, 3690
TMIA Ex. 30c	Work Request 22574	3686	WITHDRAWN, 3690
TMIA Ex. 30d	Work Request 22575	3686	WITHDRAWN, 3690
TMIA Ex. 30e	Work Request 22576	3686	WITHDRAWN, 3690
TMIA Ex. 31	Work Request C0178	3690	3698
TMIA Ex. 32	Work Request 23687	3699	REJECTED, 3704
TMIA Ex. 33a	Work Request 20000	3711	3718
TMIA Ex. 33b	Work Request 20183	3711	3718
TMIA Ex. 33c	Work Request 20332	3711	3718
TMIA Ex. 33d	Work Request 20974	3711	3718
TMIA Ex. 33e	Work Request 21165	3711	3718
TMIA Ex. 33f	Work Request 21587	3711	3718
TMIA Ex. 33g	Work Request 21794	3711	3718
TMIA Ex. 33h	Work Request 22043	3711	3718
TMIA Ex. 33i	Work Request 21769	3711	3718

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TMIA Ex. 33j	Work Request 22905	3711	3718
TMIA Ex. 33k	Work Request 23042	3711	3718
TMIA Ex. 33l	Work Request 25149	3711	3718
TMIA Ex. 33m	Work Request C1055	3711	3718
TMIA Ex. 34a	Work Request 20070	3719	3728
TMIA Ex. 34b	Work Request 20139	3719	3728
TMIA Ex. 34c	Work Request 20254	3719	3728
TMIA Ex. 34d	Work Request 20545	3720	3728
TMIA Ex. 34e	Work Request 20673	3720	3728
TMIA Ex. 34f	Work Request 21000	3720	3728
TMIA Ex. 34g	Work Request 21534	3720	3728
TMIA Ex. 34h	Work Request 21674	3720	3728
TMIA Ex. 34i	Work Request 22064	3720	3728
TMIA Ex. 34j	Work Request 21982	3721	3728
TMIA Ex. 34k	Work Request C0689	3721	3728
TMIA Ex. 35	Work Request 22652	3761	REJECTED, 3773
TMIA Ex. 36	Work Request 17075	3773	REJECTED, 3775

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TMIA Ex. 38	Work Request 19616	3781	REJECTED, 3786
TMIA Ex. 39	Work Request 23635	3786	3796
TMIA Ex. 40	Work Request 20801	3796	3799
TMIA Ex. 41	Work Request 17915	3799	REJECTED, 3803
TMIA Ex. 42	Work Request 13047 - Misplaced Job Ticket Reconciliation Form	3870	3878
TMIA Ex. 43a	Work Request 13047	3870	3878
TMIA Ex. 43b	Work Request 24854	3870	3878
TMIA Ex. 44a	L. E. Eberle overtime chart	3939- 3955	3967
TMIA Ex. 44b	C. A. Wynn overtime chart	3955	3967
TMIA Ex. 44c	C. W. Moyer overtime chart	3955	3967
TMIA Ex. 44d	D. E. McCurdy overtime chart	3955- 3956	3967
TMIA Ex. 44e	J. A. Diener overtime chart	3956	3967
TMIA Ex. 44f	M. L. Kuhn overtime chart	3956	3967
TMIA Ex. 44g	T. R. Hipple overtime chart	3956	3967

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TMIA Ex. 44j	P. L. Keene overtime chart	3956- 3957	3967
TMIA Ex. 44k	R. E. Wike overtime chart	3957	3967
TMIA Ex. 45	Job Classification listing	3959	3967
TMIA Ex. 46	Explanatory calendar	3960	4130
TMIA Ex. 47	Summary of Budget Cut Information	4105	4130- 4131
TMIA Ex. 48	Excerpt from Component Maintenance History Computer Summary	4132	4132
TMIA Ex. 49	Report Prepared by the Majority Staff of the House Committee on Interior and Insular Affairs on the Reporting of Information Concerning the Accident at Three Mile Island	22999	REJECTED, 23000
TMIA Ex. 50	Memorandum Report by Edward C. Abbott, ACRS Senior Fellow, and	23000	REJECTED, 23002

<u>EXHIBIT NUMBER</u>	<u>DESCRIPTION</u>	<u>IDENTIFIED AT TRANSCRIPT PAGE</u>	<u>ADMITTED AT TRANSCRIPT PAGE</u>
	accompanying descriptive TMIA Motion to Require Fur- ther Development of the Record		
UCS Ex. 1	NSAC-1 Equipment and System Action Matrix	4601	4660
UCS Ex. 2	§2.1.2.3, Restart Report, Plant Shielding Review (Amendment 18)	4740	4765
UCS Ex. 3	§2.1.2.3, Restart Report, Plant Shielding Review (Amendment 22)	4741	
UCS Ex. 4	Emergency Procedure 1202-39, Inadequate Core Cooling (Rev. 0, 2/8/80)	4770	4831
UCS Ex. 5	Emergency Procedure 1202-26A, Loss of Steam Generator Feed to Both OTSG's (Rev. 10, 3/4/80)	4781	4831
UCS Ex. 6	Emergency Procedure 1202-6B, Loss of Reactor Coolant/ Reactor Coolant Pressure (Small Break LOCA) Causing Automatic High Pressure Injection (Rev. 3, 6/30/80)	4782	4831
UCS Ex. 7	Emergency Procedure 1202-4, Reactor Trip (Rev. 17, 8/27/80)	5339	5340

<u>EXHIBIT NUMBER</u>	<u>DESCRIPTION</u>	<u>IDENTIFIED AT TRANSCRIPT PAGE</u>	<u>ADMITTED AT TRANSCRIPT PAGE</u>
UCS Ex. 8	Emergency Procedure 1202-6A, Loss of Reactor Coolant Pressure within Capability of Makeup System, (RC Pressure above ESAS Setpoint) (Rev. 4, 8/9/80)	5339	5340
UCS Ex. 9	Page 7.1-7 (Rev. 1) - Table 7-1 from §7.1 of Standard Review Plan	5807	6017
UCS Ex. 10	Letter dated October 25, 1979 from H.R. Denton to Mr. Howell (Consumers Power), 10 C.F.R. 50.54 Request Regarding the De- sign Adequacy of B&W Nuclear Steam Supply Systems Utilizing Once Through Steam Generators (Midland Unit Nos. 1 & 2)	5883	
UCS EX. 11	SECY-80-325A, "Inclusion of Steam Generator Transients As An Unresolved Safety Issue," dated November 7, 1980	6069	
UCS Ex. 12	"Performance Appraisal" of Robert D. Pollard at NRC, dated November, 1975	6408	6411
UCS Ex. 13	Letter dated May 12, 1975 from Loren Stanley to R.B. Minogue, requesting replacement of Pollard on IEEE Subcommittee	6409	6411

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UCS Ex. 14	Memo dated July 11, 1975 from R.D. Pollard to R.W. Klecker, "Comments on Draft IEEE Standard"	6409	6411
UCS Ex. 15	IEEE-603 (1977) (corrected edition)	6412	6586
UCS Ex. 16	IEEE-279 (August 1968)	6419	6587
UCS Ex. 17	Regulatory Guide 1.22 (Safety Guide 22), 2/17/72	6419	6587
UCS Ex. 18	Memo dated April 16, 1979 from S. Hanauer, Environmental Qualification and Instrumenta- tion to Follow Accident	6667	6683
UCS Ex. 19	Emergency Procedure 1202-29 (Rev. 12, 8/27/80), "Pressurizer System Failure"	7865	8010
UCS Ex. 20	Emergency Procedure 1202-5 (Rev. 9, 5/2/80) - OTSG Tube Leak/Rupture	8204	
UCS Ex. 21	Regulatory Guide 1.29, Seismic Design Classification (Revision 2, February 1976)	8707	8709
UCS Ex. 22	Regulatory Guide 1.29, Seismic Design Classification (Revision 3, September 1978)	8707	8709

<u>EXHIBIT NUMBER</u>	<u>DESCRIPTION</u>	<u>IDENTIFIED AT TRANSCRIPT PAGE</u>	<u>ADMITTED AT TRANSCRIPT PAGE</u>
UCS Ex. 23	Section 11.2, Standard Review Plan, Liquid Waste Management Systems (Rev. 1)	8707	8709
UCS Ex. 24	Section 11.3, Standard Review Plan, Gaseous Waste Management Systems (Rev. 1)	8708	8709
UCS Ex. 25	Section 11.4, Standard Review Plan, Solid Waste Management Systems (Rev. 1)	8708	8709
UCS Ex. 26	Section 10.4.7, Standard Review Plan, Condensate and Feedwater System (Rev. 1)	8708	8709
UCS Ex. 27	Safety Guide 6, Independence Between Redundant Standby (Onsite) Power Sources and Between Their Distribution Systems	8994	9829
UCS Ex. 28	GPU Service Inter-Office Memorandum, August 11, 1980 from J. Torcivia to C. Hartman, Emergency Procedure 1202-29, Pressurizer System Failures	9228	9340
UCS Ex. 29	Regulatory Guide 1.75 (Rev. 2, 9/78), Physical Independence of Electric Systems	9608	9829
UCS Ex. 30	Restart Report, pages 2.1-6 through 2.1-7c, hand-marked	9610	9829

<u>EXHIBIT NUMBER</u>	<u>DESCRIPTION</u>	<u>IDENTIFIED AT TRANSCRIPT PAGE</u>	<u>ADMITTED AT TRANSCRIPT PAGE</u>
	"Pressurizer Heaters - Word Changes - Amendment 22"		
UCS Ex. 31	Regulatory Guide 1.63 (Rev. 2, 7/78), "Electric Penetration Assemblies in Containment Structures for Light-Water- Cooled Nuclear Power Plants" and July, 1978 memo from R.B. Minogue.	9752	9829
UCS Ex. 32	Letter dated December 11, 1980 from M. Plesset, ACRS, to Chairman J. Ahearne, NRC, re TMI-1 Restart.	16879	16885
UCS Ex. 33	Letter dated October 31, 1980 from H.D. Hukill, Metropolitan Edison Co., to B.H. Grier, NRC, Re- sponse to IE Bulletin 79-01B	21168	21170
UCS Ex. 34	Letter dated January 30, 1980 from H.D. Hukill, Metropolitan Edison Co., to B.H. Grier, NRC, Sup- plemental Response to IE Bulletin 79-01B	21169	21170
UCS Ex. 35	Memorandum dated May 8, 1981 to TMI-1 Atomic Safety and Licensing	21458	21459

<u>EXHIBIT NUMBER</u>	<u>DESCRIPTION</u>	<u>IDENTIFIED AT TRANSCRIPT PAGE</u>	<u>ADMITTED AT TRANSCRIPT PAGE</u>
	Board from D.G. Eisenhower, NRC, Board Notification - Thermal Shock to PWR Reactor Pressure Vessels (BN-81-06) and attachments		
UCS Ex. 36	SECY-81-286, dated May 4, 1981, Pressurized Thermal Shock	21458	21459
UCS Ex. 37	IE Bulletin 79-01B dated January 14, 1980 [and supplements thereto]	21873	22350
UCS Ex. 38	Master List, Three Mile Island Unit 1, Docket No. 50-289, Class 1E Electrical Equipment Required to Function Under Postulated Accident Conditions	21874	22057
UCS Ex. 39	Eighty-four page excerpt from Licensee's submittal in response to IE Bulletin 79-01B (System Component Evaluation Worksheets)	21874	TO BE NEGOTIATED, (See 22076 and 23105-06)
UCS Ex. 40	Letter dated March 24, 1981 to H.D. Hukill, Metropolitan Edison Co.,	21876	22086

<u>EXHIBIT NUMBER</u>	<u>DESCRIPTION</u>	<u>IDENTIFIED AT TRANSCRIPT PAGE</u>	<u>ADMITTED AT TRANSCRIPT PAGE</u>
	from J.F. Stoltz, NRC, enclosing Staff evaluation, "Environmental Qualification of Safety-Related Equipment" and revision dated April 23, 1981		
UCS Ex. 41	Letter dated March 12, 1981 to T.M. Novak, NRC, from H.D. Hukill, Metropolitan Edison Co., regarding review of Staff preliminary list of deficiencies for environmental qualification of safety-related electrical equipment	21968	22079
UCS Ex. 42	Letter dated December 8, 1977 to B.H. Grier, NRC, from J.G. Herbein, Metropolitan Edison Co., response to IE Bulletin 77-05	21982	22080
UCS Ex. 43	Letter dated December 15, 1977 to B.H. Grier, NRC, from J.G. Herbein, Metropolitan Edison Co., response to IE Bulletin 77-05A	21982	22080

<u>EXHIBIT NUMBER</u>	<u>DESCRIPTION</u>	<u>IDENTIFIED AT TRANSCRIPT PAGE</u>	<u>ADMITTED AT TRANSCRIPT PAGE</u>
UCS Ex. 44	NUREG/CR-1682, SAND80- 1957, "Electrical Insulators in a Reactor Accident Environment," January, 1981	22016	REJECTED, 22084