



FOIA-87-706

RESPONSE TYPE

XX FINAL

PARTIAL

DATE

APR 13 1988

DOCKET NUMBER(S) (if applicable)

PDR-016  
RESPONSE TO FREEDOM OF  
INFORMATION ACT (FOIA) REQUEST

REQUESTER

Mr. Steven C. Sholly

## 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 A are already available for public inspection and copying in the NRC Public Document Room, 1717 H Street, N.W., Washington, DC.☒ Agency records subject to the request that are identified in Appendix B 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 for public inspection and copying 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

☒ 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

8804190050 880413  
PDR FCIA  
SHOLLY87-706 PDR

SIGNATURE, DIRECTOR, DIVISION OF FILES AND RECORDS

*Norm H. Hunsley*

## PART II.B - APPLICABLE FOIA EXEMPTIONS

Records subject to the request that are described in the enclosed Appendices C are being withheld in their entirety or in part under FOIA Exemptions and for the reasons set forth below pursuant to 5 U.S.C. 552(b) and 10 CFR 9.5(a) of NRC Regulations.

1. The withheld information is properly classified pursuant to Executive Order 12356 (EXEMPTION 1)
2. The withheld information relates solely to the internal personnel rules and procedures of NRC. (EXEMPTION 2)
3. The withheld information is specifically exempted from public disclosure by statute indicated. (EXEMPTION 3)

Section 141-145 of the Atomic Energy Act which prohibits the disclosure of Restricted Data or Formerly Restricted Data (42 U.S.C. 2161-2165).

Section 147 of the Atomic Energy Act which prohibits the disclosure of Unclassified Safeguards Information (42 U.S.C. 2167).

4. The withheld information is a trade secret or commercial or financial information that is being withheld for the reason(s) indicated: (EXEMPTION 4)

The information is considered to be confidential business (proprietary) information.

The information is considered to be proprietary information pursuant to 10 CFR 2.790(d)(1).

The information was submitted and received in confidence from a foreign source pursuant to 10 CFR 2.790(d)(2).

5. The withheld information consists of interagency or intraagency records that are not available through discovery during litigation. Disclosure of predecisional information would tend to inhibit the open and frank exchange of ideas essential to the deliberative process. Where records are withheld in their entirety, the facts are inextricably intertwined with the predecisional information. There also are no reasonably segregable factual portions because the release of the facts would permit an indirect inquiry into the predecisional process of the agency. (EXEMPTION 5)

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6. The withheld information is exempted from public disclosure because its disclosure would result in a clearly unwarranted invasion of personal privacy. (EXEMPTION 6)

7. The withheld information consists of investigatory records compiled for law enforcement purposes and is being withheld for the reason(s) indicated. (EXEMPTION 7)

Disclosure would interfere with an enforcement proceeding because it could reveal the scope, direction, and focus of enforcement efforts, and thus could possibly allow them to take action to shield potential wrongdoing or a violation of NRC requirements from investigators. (EXEMPTION 7(A))

Disclosure would constitute an unwarranted invasion of personal privacy (EXEMPTION 7(C))

The information consists of names of individuals and other information the disclosure of which would reveal identities of confidential sources. (EXEMPTION 7(D))

## PART II.C - DENYING OFFICIALS

Pursuant to 10 CFR 9.9 and/or 9.15 of the U.S. Nuclear Regulatory Commission regulations, it has been determined that the information withheld is exempt from production or disclosure, and that its production or disclosure is contrary to the public interest. The persons responsible for the denial are those officials identified below as denying officials and the Director, Division of Rules and Records, Office of Administration, for any denials that may be appealed to the Executive Director for Operations (EDO).

DENYING OFFICIAL	TITLE/OFFICE	RECORDS DENIED	APPELLATE OFFICIAL	
			SECRETARY	EDO
Eric S. Beckjord	Director, Office of Nuclear Regulatory Research	App. C		X

## PART II.D - APPEAL RIGHTS

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 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 or 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."

APPENDIX ARECORDS MAINTAINED AMONG PDR FILES

<u>NUMBER</u>	<u>DATE</u>	<u>DESCRIPTION</u>
1.	November 26, 1986	Ltr. Buhl to Speis, Subj: Forwards Final Versions of Position Papers on NRC/IDCOR Technical Issues 4,9,10,12,138, 15 & 16. Topics Include Fission Product & Aerosol Deposition in Primary System & In Containment & Retention of Fission Products in the Ice Bed  ACCESSION NO.: 8612040241
2.	September 22, 1986	Ltr. Buhl to Speis, Subj: Forwards Final Versions of Position Papers on NRC/IDCOR Technical Issues 1,2,3,5,6,11,13A & 17. Topics Include Fission Product Release Prior to Vessel Failure & Hydrogen Ignition & Burning  ACCESSION NO.: 8610100286
3.		<u>INDUSTRY REPORTS</u>
	<u>Date</u>	<u>Accession No.</u> <u>Description</u>
	April 30, 1987	8704300053      Westinghouse Electric Corp.- "Individual Plant Evaluation Methodology for PWRs," Technical Rept. W/JR Siegel 870313 Release Memo.
	March 31, 1987	8704290449      Fauske & Associates, Inc. - "Technical Rept. 86.382 Source Term Methodology for BWRs." W/JR Seigel 870313 Release Ltr.
	March 31, 1987	8704290340      Fauske & Associates, Inc. - "Technical Rept 86.3A2: IPE Source Term Methodology for PWR." W/870313 Release Ltr.
	March 31, 1987	8706110080      System Energy Resources, Inc. "IDCORP Technical Rept 86.200 Verification of IPE for Grand Gulf." W/JR Siegel 870313 release memo.

APPENDIX ARECORDS MAINTAINED AMONG PDR FILESNUMBERDATEDESCRIPTIONINDUSTRY REPORTS

<u>Date</u>	<u>Accession No.</u>	<u>Description</u>
March 13, 1987	8703230059	Atomic Industrial Forum - Forwards IDCOR "Technical Rept 3.2, Assess Dominant Sequences," for Oct. 1988. NRC granted authority to duplicate copyrighted IDCOR mats as necessary for use by NRC & NRC contractor personnel in carrying out regulatory mission.
March 13, 1987	8706100235	Atomic Industrial Forum - Forwards IDCOR, "Technical Rept 12.1, Hydrogen Generation During Severe Core Damage Sequences," dtd June 1983. Authority granted to duplicate copyrighted IDCOR mats as necessary for use by NRC in carrying out regulatory mission.
January 31, 1987	8706110091	Long Island Lighting Co./Delian Corp. "Technical Rept 86.2SH Verification of IPE for Shoreham," with/870313 release memo.
November 30, 1986	8704160086	Duke Power Co. - "Technical Rept 86.20C: Verification of IPE for Oconee." W/870313 release memo.
August 31, 1986	8704010500	Fauske & Associates, Inc. "Technical Rept 23.5 Evaluations of Containment Bypass & Failure to Isolate Sequences for IDCOR Ref Plants." w/870313 release ltr.
August 31, 1986	8704160089	Stone & Webster, Inc. - "Technical Rept 85.5B (5.9): Source Term & Emergency Planning." W/870313 ltr.
August 31, 1986	8705150389	Atomic Industrial Forum - "Technical Rept 17.5 Draft Final of IDCOR-85 An Investigation of High-Temperature Accident Conditions for Mark-I Containment Vessels." W/870313 release ltr.
August 31, 1986	8704010455	Stone & Webster Eng. Corp. - "Technical Rept 85.5A (5.5) Revised Source Terms." W/870313 release ltr.
February 28, 1986	8704010472	Stone & Webster Eng. Corp. - "Technical Rept 85.4 (5.3), Reassessment of Emergency Planning Requirements W/Present Source Terms." W/870313 release ltr.

APPENDIX ARECORDS MAINTAINED AMONG PDR FILES

<u>NUMBER</u>	<u>DATE</u>	<u>DESCRIPTION</u>
	<u>Date</u>	<u>Accession No.</u>
	<u>Description</u>	
	July 31, 1985	8705150359
		Atomic Industrial Forum/Fauske & Associates, Inc "Technical Rept 85.2 Technical Support for Issue Resolution." W/870313 release ltr encl.
	June 30, 1985	8705150210
		Energy, Inc. - "Technical Rept 21.1 Risk Reduction Potential." W/870313 release memo.
	June 30, 1985	8705180003
		Commonwealth Edison Co. - "Technical Rept 23.12 Zion Nuclear Generating Station - Integrated Containment Analysis." W/870313 release memo.
	May 31, 1985	8704160329
		Fauske & Associates, Inc. - "Technical Rept 23.4 MAAP Uncertainty Analysis."
	May 31, 1985	8704010542
		Affiliation not assigned - "IDCOR-85 Program Plan." W/870313 release memo.
	May 31, 1985	8704020157
		Tennessee Valley Authority - "Technical Rept 23.15 Sequoyah Nuclear Plant Integrated Containment Analysis." W/870313 release ltr.
	March 31, 1985	8706100288
		Fauske & Associates, Inc. - "Technical Rept 11.7.FAI Aerosol Correlation." W/870313 release memo.
	March 31, 1985	8705150276
		Atomic Industrial Form/Philadelphia Electric Co. - "Technical Rept 23.1PB Peach Bottom Atomic Power Station - Integrated Containment Analysis." W/870313 release ltr encl
	March 31, 1985	8704010611
		Mississippi Power & Light Co. - "Technical Rept 23.1GG Grand Gulf Nuclear Station- Integrated Containment Analysis." JR Siegel 870313 release ltr encl.
	January 31, 1985	8704160088
		Jaycor - "Technical Rept 16.4 Analysis to Support MAAP Phenomenological Models." IDCOR program rept. W/870407 release ltr.
	December 31, 1984	8705180033
		LN Technologies Corp. (formerly NUS Corp) "Technical Rept 18.1, Evaluate Atmospheric & Liquid Pathway Dose," program rept. W/870313 release ltr.
	December 31, 1984	8704010494
		Technology for Energy Corp. - "Technical Rept 24.4 Operator Response to Severe Accidents." W/870313 release ltr.



APPENDIX ARECORDS MAINTAINED AMONG PDR FILES

<u>NUMBER</u>	<u>DATE</u>	<u>DESCRIPTION</u>
	<u>Date</u>	<u>Accession No.</u>
	<u>Description</u>	
	November 30, 1984	8703160228
	September 30, 1984	8704160188
	August 31, 1984	8703200383
	August 31, 1984	8706100486
	June 30, 1984	8705180014
	February 28, 1984	8706110353
	January 31, 1984	8706110018
	December 31, 1983	8706110174
	December 31, 1983	8704170037
	November 30, 1983	8704160339
	October 31, 1983	8507130018

Technology for Energy Corp. - Errata to IDCOR technical summary rept. "Nuclear Power Plant Response to Severe Accidents."

LN Technologies Corp. (formerly NUS Corp) "Technical Rept 9.1R Preventive Methods to Arrest Sequences of Events Prior to Core Damage Rev 1," program rept.

Technology for Energy Corp. - "Technical Rept 1.1 Safety Goal Evaluation: Implications for IDCOR." W/870313 release ltr.

Fauske & Associates, Inc. - "Technical Rept 11.6, Resuspension of Deposited Aerosols Following Primary Sys or Containment Failure." W/870313 release memo.

Fauske & Associates, Inc. - "Technical Rept 22.1, Safe Stable States." W/870313 release memo.

S. Levy, Inc. - "Technical Rept 13.2-3 Evaluation of Means to Prevent, Suppress, or Control Hydrogen Burning in Reactor Containments," W/870313 release ltr.

Impell Corp. - "IDCOR Technical Rept 11.2 Identifying Pathways on Fission Product Transport." W/JR Siegel 870313 release ltr.

Impell Corp. - "Technical Rept 11.3 Fission Product Transport in Degraded Core Accidents." W/870313 release memo.

Jaycor - "Technical Report 16.1A, Review of Modular Accident Analysis Program of BWR and PWR Codes." W/870407 release memo.

Energy, Inc. - "Technical Rept 6.1: Risk Significance Profile for ESF & Other Equipment." W/870407 release ltr.

Electric Power Research Institute - Technical Repts. 11.1, 11.4 & 11.5 "Estimation of Fission Product & Core-Matl Characteristics." W/870313 release ltr.

## APPENDIX A

RECORDS MAINTAINED AMONG PDR FILES

<u>NUMBER</u>	<u>DATE</u>	<u>DESCRIPTION</u>
	<u>Date</u>	<u>Accession No.</u>
	<u>Description</u>	
	October 31, 1983	8704160294
	September 30, 1983	8705150340
	September 30, 1983	8706110106
	September 30, 1983	8706110042
	September 30, 1983	8704160093
	August 31, 1983	8704160083
	July 31, 1983	8705150238
	July 31, 1983	8703200350
	July 31, 1983	8706110025
	July 31, 1983	8706110385
	July 31, 1983	8702130103

Science Applications Internationao Corp.  
(Formerly Science Industry) - "Technical Rept. 4.1, Containment Event Trees," IDCOR program rept. W/870313 release ltr.

Atomic Industrial Forum/Electric Power Research Institute - "Technical Rept 15.1B, Analysis of In-Vessel Core Melt Progression." W/870313 release ltr.

Electric Power Research Institute - "Technical Rept 12.2: Hydrogen Combustion in Reactor Containment Bldgs." W/870313 release ltr.

Electric Power Research Institute - "Technical Rept. 12.1 Hydrogen Distribution in Reactor Containment Bldgs." W/870313 release memo.

Fauske & Associates, Inc. - "Technical Rept. 15.3: Core-Concrete Interactions." W/870313 release memo.

Industry Degraded Core Rulemaking Program - "Technical Rept 15.2B Debris Coolability, Vessel Penetration & Debris Dispersal." W/870313 release ltr.

Industry Degraded Core Rulemaking Program - "Technical Rept 20.1 Core Retention Devices."

"Technical Rept 3.3: Selection of Dominant Sequences-Update." W/870313 release ltr.

Bechtel Corp. - "IDCOR Technical Rept. 19.1, Alternate Containment Concepts." W/JR Siegel 870313 release ltr.

Technology for Energy Corp. - "Technical Rept 10.1 Containment Structural Capability of Light Water Nuclear Power Plants." W/870313 release memo.

Fauske & Associates, Inc. - Technical Rept. 15.1A, "In-Vessel Core Melt Progression Phenomena." W/870313 release ltr.

APPENDIX ARECORDS MAINTAINED AMONG PDR FILES

<u>NUMBER</u>	<u>DATE</u>	<u>DESCRIPTION</u>
	<u>Date</u>	<u>Assession-No.</u>
		<u>Description</u>
	June 30, 1983	8402130060
		Fauske & Associates, Inc. - Technical Report 14.1B, "Key Phenomenological Models for Assessing Nonexplosive Steam Generation Rates."
	June 30, 1983	8402130109
		Electric Power Research Institute - Technical Rept. 15.2A, "Effects of Hypothetical Core Melt Accident on PWR Vessel W/Top-Entry Instruments." W/870313 release ltr.
	April 30, 1983	8507130169
		Jaycor - Technical Rept. 16.1, "Access Available Codes, Define Use & Follow & Support Ongoing Activities."
	March 31, 1983	8704160350
		Technology for Energy Corp. - "Technical Rept 5.1 Human Error: Effects on Dominant Accident Sequences."
	August 31, 1982	8703200339
		Technology for Energy Corp. - "Mgt Rept 3: Survey of Research Programs Related to Degraded Core Issues." W/870313 release ltr.
	June 30, 1982	8402130080
		Technology for Energy Corp. - Technical Rept. 3.1, "Define Initial Likely Sequences."
	April 30, 1982	8402130077
		Technology for Energy Corp. - Technical Rept No. 2.1, "Ground Rules for Industry Degraded Core Rulemaking Program."
	November 30, 1981	8206150191
		Technology for Energy Corp. - "IDCOR Program Plan."



## APPENDIX B

RECORDS MAINTAINED IN THE PDR UNDER THE ABOVE REQUEST NUMBER

<u>NUMBER</u>	<u>DATE</u>		<u>DESCRIPTION</u>
1.	November 1987	NUREG/CR-4920 BNL-NUREG-52070 Volume 1	Assessment of Severe Accident Prevention and Mitigation Features: BWR, Mark I Containment Design, prepared by W. T. Pratt, et al (Draft) (82 pages)
2.	November 1987	NUREG/CR-4920 BNL-NUREG-52070 Volume 2	Assessment of Severe Accident Prevention and Mitigation Features: BWR, Mark II Containment Design, by C. J. Hsu, et al (Draft) (96 pages)
3.	November	NUREG/CR-4920 BNL-NUREG-52070 Volume 3	Assessment of Severe Accident Prevention and Mitigation Features: BWR, Mark III Containment Design, by R. G. Fitzpatrick, et al (Draft) (64 pages)
4.	November 1987	NUREG/CR-4920 BNL-NUREG-52070 Volume 4	Assessment of Severe Accident Prevention and Mitigation Features: PWR, Large-Volume Containment Design, by W. J. Luckas, et al (Draft) (112 pages)
5.	November 1987	NUREG/CR-4920 BNL-NUREG-52070 Volume 5	Assessment of Severe Accident Prevention and Mitigation Features: PWR, Ice-Condenser Containment Design, by K. R. Perkins, et al (17 pages)
6.	October 14, 1987		Mem. Eltawila to Sheron and Coffman, Subj: Minutes of the NRC/IDCOR Steering Committee Meeting on September 10, 1987 (15 pages)
7.	October 2, 1987		Ltr. Sheron to Buhl, Subj: Response to Ltr. Dated July 9, 1987, fm Buhl to Beckjord Response to Brookhaven National Laboratory's Comments on IDCOR's Model of the Mark I Containment Response to Direct Contact with Molten Core Debris (4 pages)
8.	July 9, 1987		Ltr. Buhl to Beckjord, Subj: Response to Brookhaven National Laboratory's (BNL) Comments on IDCOR's Model of the Mark I Containment Response to Direct Contact with Molten Core Debris (8 pages)
9.	March 11, 1987		Ltr. Speis to Buhl, Subj: Encl. Position Paper Re the Issue of Direct Containment Heating (6 pages)
10.	March 9, 1987		Ltr. Buhl to Speis, Subj: Submittal of Revisions to the IDCOR Individual Plant Evaluation (IPE) Pressurized Water Reactor Systems Methodology (12 pages)

APPENDIX B

RECORDS MAINTAINED IN THE PDR UNDER THE ABOVE REQUEST NUMBER

<u>NUMBER</u>	<u>DATE</u>	<u>DESCRIPTION</u>
11.	December 10, 1986	Ltr. Buhl to Speis, Subj: IDCOR Response to NRC Comments on the Individual Plant Evaluation Methodology (46 pages)
12.	September 9, 1986	Ltr Speis to Buhl, Subj: NRC Preliminary Review of the Draft Individual Plant Examination Methods (IPEM) Submitted by IDCOR on May 2, 1986 (41 pages)

APPENDIX CRECORDS TOTALLY WITHHELD

<u>NUMBER</u>	<u>DATE</u>	<u>DESCRIPTION &amp; EXEMPTION</u>
1.	10/19/87	Draft Generic Letter Concerning Individual Plant Examinations for Severe Accident Vulnerabilities (Including Supporting Documents) - <u>Exemption 5</u>
2.	Undated	Draft Evaluation of IDCOR IPEM for PWR's (Including Supporting Documents) - <u>Exemption 5</u>
3.	Undated	Draft Evaluation of IDCOR IPEM for BWR's (Including Supporting Documents) - <u>Exemption 5</u>