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 AUTH. NAME AUTHOR AFFILIATION
 BOUCHEY, G. D. Washington Public Power Supply System
 RECIP. NAME RECIPIENT AFFILIATION
 SCHWENCER, A. Licensing Branch 2

SUBJECT: Submits addl info to suppl test rept data in util 820802
 & 0920 ltrns to NRC re Thermo-Lag 330-1, subliming coating
 envelope sys (ITL Rept 82-5-355A) for fire protection of
 cable raceway sys under App R.

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	NRC PDR 02	1 1	NSIC 05	1 1
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1. Project Name: [Project Name]
 2. Project Number: [Project Number]
 3. Project Manager: [Project Manager]
 4. Project Sponsor: [Project Sponsor]
 5. Project Start Date: [Project Start Date]
 6. Project End Date: [Project End Date]
 7. Project Budget: [Project Budget]
 8. Project Status: [Project Status]
 9. Project Description: [Project Description]
 10. Project Objectives: [Project Objectives]
 11. Project Deliverables: [Project Deliverables]
 12. Project Risks: [Project Risks]
 13. Project Issues: [Project Issues]
 14. Project Stakeholders: [Project Stakeholders]
 15. Project Communication Plan: [Project Communication Plan]
 16. Project Change Management Plan: [Project Change Management Plan]
 17. Project Quality Management Plan: [Project Quality Management Plan]
 18. Project Resource Management Plan: [Project Resource Management Plan]
 19. Project Risk Management Plan: [Project Risk Management Plan]
 20. Project Stakeholder Management Plan: [Project Stakeholder Management Plan]

of the 1980s. The 1980s saw a significant increase in the number of people who were employed in the service sector, which was a result of the fact that the economy was growing rapidly. This was due to the fact that the economy was growing rapidly, and this was due to the fact that the economy was growing rapidly.

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CITY OF NEW YORK		COUNTY OF NEW YORK		JANUARY 1, 1900	
NAME	AGE	SEX	COLOR	RELATION	RESIDENCE
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MARY J. BROWN	32	F	W	Wife	100 West 10th St.
JOHN J. BROWN	10	M	W	Son	100 West 10th St.
MARY J. BROWN	8	F	W	Daughter	100 West 10th St.
JOHN J. BROWN	5	M	W	Son	100 West 10th St.
MARY J. BROWN	3	F	W	Daughter	100 West 10th St.
JOHN J. BROWN	1	M	W	Son	100 West 10th St.
MARY J. BROWN	1	F	W	Daughter	100 West 10th St.

Washington Public Power Supply System

P.O. Box 968 3000 George Washington Way Richland, Washington 99352 (509) 372-5000

October 4, 1982
G02-82-826

Docket No. 50-397

Mr. A. Schwencer, Chief
Licensing Branch No. 2
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Schwencer:

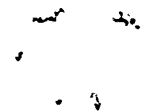
Subject: NUCLEAR PROJECT NO. 2
THERMO-LAG 330-1 SUBLIMING COATING ENVELOPE SYSTEM
(ITL REPORT NO. 82-5-355A) FOR FIRE PROTECTION OF
CABLE RACEWAY SYSTEMS UNDER 10CFR 50 APPENDIX R

- Reference:
- (a) Telecon, R. Auluck and D. Kubicki (NRC) to P. Powell and D. Evans (Supply System) on September 30, 1982
 - (b) Letter, G02-82-792, GD Bouchey (Supply System) to A. Schwencer (NRC), "Thermo-Lag 330-1 Subliming Coating Envelope System (ITL Report No. 82-5-355A) for Fire Protection of Cable Raceway Systems Under 10CFR 50 Appendix R," dated September 20, 1982
 - (c) Letter, G02-82-635, GD Bouchey (Supply System) to A. Schwencer (NRC), same subject as (b), dated August 2, 1982
 - (d) Letter, G02-82-396, GD Bouchey (Supply System) to A. Schwencer (NRC), "Respns to SER on FSAR Section 9.5.1, Fire Protection Program", dated April 22, 1982
 - (e) Letter, G02-82-100, GD Bouchey (Supply System) to A. Schwencer (NRC), "Use of One-Hour Fire Barriers without Automatic Fire Suppression Systems," dated January 21, 1982

The purpose of this letter is to provide additional information as requested in reference (a), to supplement the subject test report data provided to the NRC in references (b) and (c). Mr. Kubicki had requested a clarification of the method of sealing the ends of the cable raceway test articles outside the furnace, and the placement of thermocouples inside the test articles. As requested, this information will be provided direct to Mr. Kubicki by Industrial Testing Laboratories, and TSI, Inc. of St. Louis.

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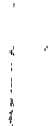
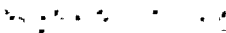
As discussed in reference (a), all cables and cable raceway components for the test program were provided by the Supply System as representative samples of materials used on Supply System Projects 1, 2, and 3. The cable type provided by each project is documented in the subject report under Appendix III, Section 2, Remarks. All materials supplied by TSI, Inc. for the Thermo-Lag 330-1 subliming coating envelope system used in the test program will be used for construction of such envelopes on Supply System projects. The product application and repair procedures used in the test program and documented in Appendix I, Section 4 of the subject report will be adhered to in the actual installation of the envelopes.

As previously stated in references (b) and (c), the report on the three-hour fire endurance tests will follow as soon as it is available.

Mr. Kubicki also requested an update of data previously provided in references (d) and (e), regarding the use of one and three-hour rated Thermo-Lag fire barrier/envelopes. This data is indicated in the attached table as a summary of data from the FSAR, Appendix F (Fire Protection Evaluation), Amendment 24.

This table indicates three fire areas requiring cable protection to ensure post-fire shutdown capability have existing sprinkler protection, and specific cable raceway systems will be provided with the Thermo-Lag one-hour fire rated barrier/envelope. The remaining fire areas indicated will have specific cable raceway systems protected with the Thermo-Lag three-hour fire rated barrier/envelope, without sprinkler protection.

As the result of an analysis of cable systems by Burns and Roe, Inc., several of the original fire areas indicated in reference (e) no longer require cable protection, as redundant post-fire shutdown capability has been established in separate fire areas.² Fire areas with fire loadings less than fifteen minutes (20,000 Btu/ft²) have been eliminated, thereby eliminating the need for the use of one-hour fire rated barrier/envelopes without sprinklers, at this time. This should resolve the issue in the SER, regarding the use of one-hour fire rated barrier/envelopes without sprinklers in areas of very low fire loading (i.e., less than 20,000 Btu/Ft²).



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Your assessment of this information and related response to this letter is requested at your earliest convenience in order to minimize construction delays.

Very truly yours,



G. D. Bouchey
Manager, Nuclear Safety and Licensing

DTE:cph
Attachment: Summary Table

cc: Mr. R. Auluck - NRC
Mr. W. S. Chin - BPA
Mr. R. Feil - NRC Site
Mr. D. Kubicki - NRC