

REGULATOR INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8509100076 DOC. DATE: 85/09/03 NOTARIZED: NO DOCKET #  
 FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylvania 05000387  
 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylvania 05000388  
 AUTH. NAME: AUTHOR AFFILIATION  
 FIELDS, J. S., Pennsylvania Power & Light Co.  
 RECIP. NAME: RECIPIENT AFFILIATION  
 SWERDON, P. M. Pennsylvania, Commonwealth of

SUBJECT: Informs that on 850830, Powerline 3451 injected w/aqueous solution containing acrylate copolymer & phosphoric acid derivative for prevention of scaling in circulating water sys, per 850829 telcon re approval of chemical.

DISTRIBUTION CODE: C001L COPIES RECEIVED: LTR: 1 ENCL: 1 SIZE: 2  
 TITLE: Licensing Submittal: Environmental Rept Amdt & Related Correspondence

NOTES: 1cy NMSS/FCAF/PM, LPDR 2cys Transcripts. 05000387  
 OL: 07/17/82  
 1cy NMSS/FCAF/PM, LPDR 2cys Transcripts: 05000388  
 OL: 03/23/84

	RECIPIENT ID CODE/NAME		COPIES LTTR ENCL		RECIPIENT ID CODE/NAME		COPIES LTTR ENCL
	NRR LB2 BC 18		1 1		NRR LB2 LA 19		1 1
	CAMPAGNONE 04		1 1				
INTERNAL:	ACRS 20		6 6		ADM/LFMB		1 0
	ELD/HDS4		1 0		NRR/DE/AEAB 08		1 1
	NRR/DE/EEB 06		1 1		NRR/DE/EHEB		1 1
	NRR/DE/SAB 07		1 1		NRR/DSI/METB		1 1
	NRR/DSI/RAB 09		1 1		<u>REG FILE</u>		1 1
	RGN1		1 1				
EXTERNAL:	24X		1 1		LPDR 03		2 2
	NRC PDR 02		1 1		NSIC 05		1 1
NOTES:			3 3				

1. The purpose of this report is to provide a comprehensive overview of the current status of the project and to identify key areas for improvement. This report is intended for the use of senior management and is not to be distributed outside the organization.

2. The project has made significant progress since the last report, with several key milestones being met. However, there are still a number of challenges that need to be addressed in order to ensure the successful completion of the project.

3. The following table provides a summary of the project's performance over the last quarter. The data shows that while overall progress has been good, there have been some delays in certain areas, particularly in the development of the new software module.

Area	Target	Actual	Variance
Software Development	80%	75%	-5%
Hardware Integration	90%	92%	+2%
Testing & Deployment	70%	68%	-2%
Documentation	100%	100%	0%
Overall Project Progress	85%	82%	-3%

Pennsylvania Power & Light Company

Two North Ninth Street • Allentown, PA 18101 • 215/770-5151

September 3, 1985

Mr. Paul M. Swerdon  
Chief, Facilities and Construction Grants Section  
Bureau of Water Quality Management  
Pennsylvania Department of Environmental Services  
90 East Union Street, 2nd Floor  
Wilkes-Barre, PA 18701-3296

SUSQUEHANNA STEAM ELECTRIC STATION  
APPROVAL FOR USE OF POWERLINE 3451  
(AQUEOUS SOLUTION CONTAINING ACRYLATE COPOLYMER  
AND PHOSPHONIC ACID DERIVATIVE)  
CCN 741326 FILE 138-01  
PLE-7538

50-3-01  
50-3-02

Dear Mr. Swerdon:

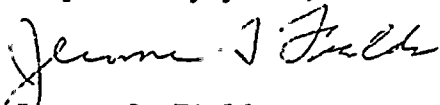
The Pennsylvania Power and Light Company is submitting a material safety data sheet for Powerline 3451 to be used on an interim basis to prevent scaling in the Susquehanna SES circulating water system while the acid injection system is out of service. While this product is being used it will replace the 1000 m.w. polyacrylate discussed in letter PLE-5362, July 19, 1984. Powerline 3451 has a phosphonic acid derivative in addition to a polyacrylate.

As discussed with Mr. Paul J. Koval of the Pennsylvania DER at a Susquehanna SES Pollution Control Task Force meeting on August 29, 1985, the Powerline 3451 will be used to prevent the precipitation of calcium carbonate without changing other NPDES parameters in the circulating water system. As per Mr. Koval's and your telephone conversation of August 29, 1985, it is PP&L's understanding that the Pennsylvania DER tentatively approved usage of this chemical.

The Powerline 3451 was injected on August 30, 1985 at a rate of 10 ppm of product into the circulating water system. The blowdown rate should be approximately 0.5 to 1.0 ppm as phosphonate and 5 ppm as acrylate copolymer discharged into NPDES Discharge 071, the cooling tower blowdown line. This discharge will be monitored to make certain of the discharge concentration.

If you have any questions, please contact me at (215) 770-7889.

Respectfully yours,



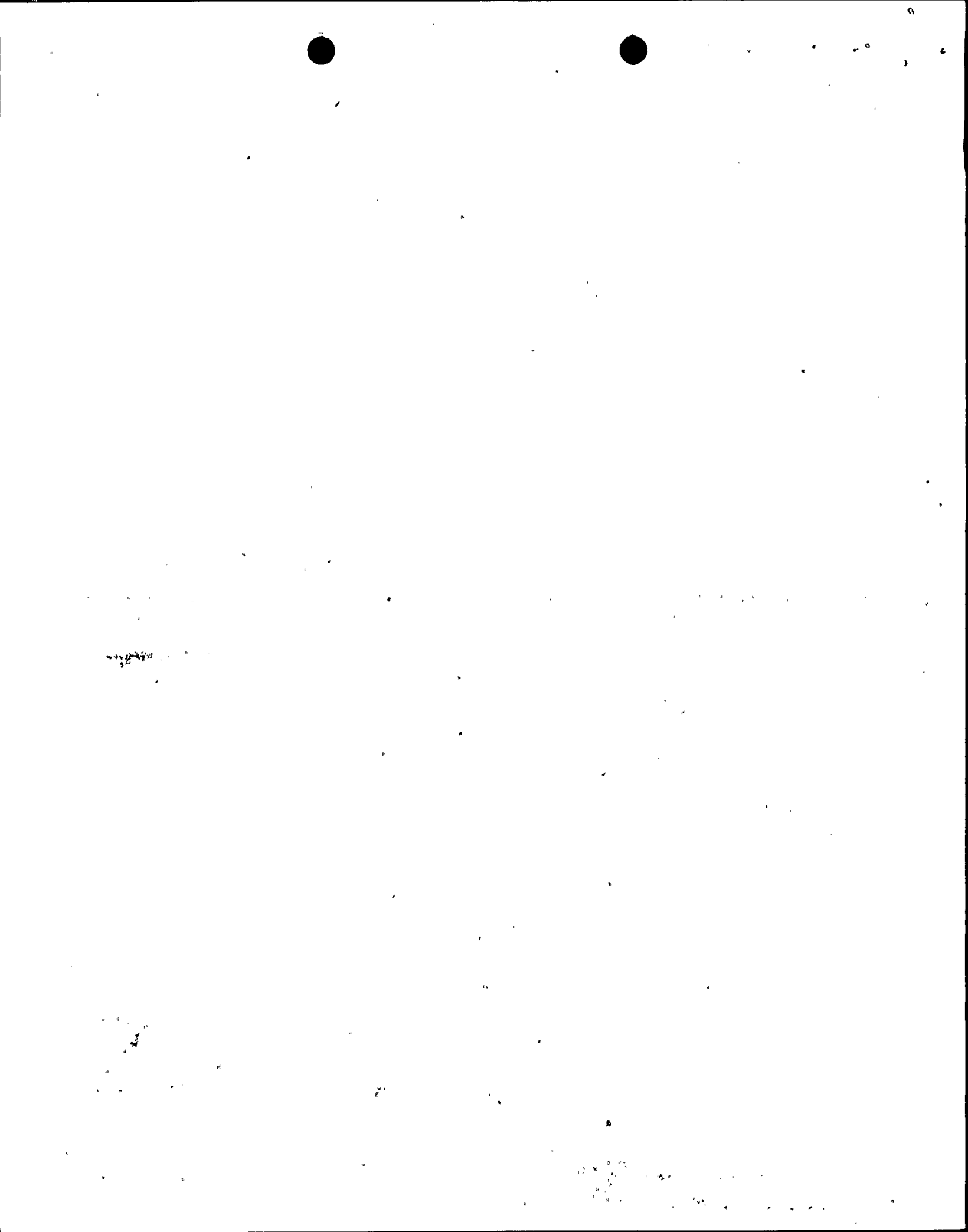
Jerome S. Fields  
Sr. Environmental Scientist - Nuclear

JSF/msh

cc: A. Schwencer - NRC ✓  
P. Koval - PA DER

COOL  
11

8509100076 850903  
PDR ADDCK 05000387  
P PDR



BETZ MATERIAL SAFETY DATA SHEET  
EMERGENCY TELEPHONE NUMBER 215/355-3300

PRODUCT : POWERLINE 3451

EFFECTIVE DATE 4/85

\*\*\*\*\*  
\* NFPA  
\* HEALTH - 1  
\* FIRE - 0  
\* REACTIVITY-0  
\* SPECIAL - -  
\*\*\*\*\*

-----SECTION 1-----HAZARDOUS INGREDIENTS-----

HAZARDOUS INGREDIENT TLV-TWA(SEE LATEST TLV BULLETIN):

NONE

HAZARDOUS INGREDIENT PERMISSIBLE EXPOSURE LIMIT(SEE CFR 1910.1000 TABLES Z-1 /Z-2):

NONE

\*\*\* GENERIC DESCRIPTION \*\*\*

AQUEOUS SOLUTION CONTAINING ACRYLATE COPOLYMER AND PHOSPHONIC ACID DERIVATIVE.

-----SECTION 2-----TYPICAL PHYSICAL DATA-----

AS IS (APPROX.) 5.5 B.PT.OF OR B.RANGE: ND  
M.PT.(DEG.F): >200 SETA(CC) SP.GR.(70/70oF)OR DENSITY: 1.177  
VAPOR PRESSURE(mmHG): 18 VAPOR DENSITY(AIR=1): <1  
ISC cps70oF: 40 %SOLUBILITY(WATER): 100  
VAP.RATE: <1 ETHER=1 APPEARANCE: YELLOW  
PHYSICAL STATE: LIQUID FREEZE POINT(DEG.F): 25  
ODOR: NONE

-----SECTION 3-----REACTIVITY DATA-----

THERMAL DECOMPOSITION (DESTRUCTIVE FIRES) YIELDS ELEMENTAL OXIDES.  
TABLE

-----SECTION 4-----HEALTH HAZARD EFFECTS-----

ACUTE SKIN EFFECTS\*\*\*  
LIGHTLY IRRITATING TO THE SKIN  
ACUTE EYE EFFECTS\*\*\*  
MODERATELY IRRITATING TO THE EYES  
ACUTE RESPIRATORY EFFECTS\*\*\*  
GASES/AEROSOLS MAY CAUSE IRRITATION TO UPPER RESPIRATORY TRACT  
CHRONIC EFFECTS\*\*\*  
CHRONIC EFFECTS OF THIS FORMULATION HAVE NOT YET BEEN FULLY EVALUATED

-----SECTION 5-----FIRST AID INSTRUCTIONS-----

SKIN CONTACT\*\*\*  
REMOVE CONTAMINATED CLOTHING.WASH EXPOSED AREA WITH A LARGE QUANTITY OF SOAP SOLUTION OR WATER FOR 15 MINUTES  
EYE CONTACT\*\*\*  
IMMEDIATELY FLUSH EYES WITH WATER FOR 15 MINUTES.IMMEDIATELY CONTACT A PHYSICIAN FOR ADDITIONAL TREATMENT  
INHALATION EXPOSURE\*\*\*  
REMOVE VICTIM FROM CONTAMINATED AREA TO FRESH AIR.APPLY APPROPRIATE FIRST AID TREATMENT AS NECESSARY  
INGESTION\*\*\*  
GENERAL-DO NOT FEED ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSIVE VICTIM  
SPECIFIC- DILUTE CONTENTS OF STOMACH.INDUCE VOMITING BY ONE OF THE STANDARD METHODS.IMMEDIATELY CONTACT A PHYSICIAN

OVER

---SECTION 6-----SPILL, DISPOSAL AND FIRE INSTRUCTIONS-----

SPILL INSTRUCTIONS\*\*\*

GENERAL-VENTILATE AREA, USE SPECIFIED PROTECTIVE EQUIPMENT. CONTAIN  
D ABSORB ON ABSORBENT MATERIAL. PLACE IN WASTE DISPOSAL CONTAINER.  
E WASTE CHARACTERISTICS OF THE ABSORBED MATERIAL, OR ANY CONTAMINATED  
IL, SHOULD BE DETERMINED IN ACCORDANCE WITH RCRA REGULATIONS.  
ECIFIC- FLUSH AREA WITH WATER. WET AREA MAY BE SLIPPERY. IF SO, SPREAD  
SAND OR GRIT.

DISPOSAL INSTRUCTIONS\*\*\*

GENERAL-WATER CONTAMINATED WITH THIS PRODUCT MAY BE SENT TO A SANITARY  
WER TREATMENT FACILITY, IN ACCORDANCE WITH ANY LOCAL AGREEMENT, A  
RMITTED WASTE TREATMENT FACILITY OR DISCHARGED UNDER A NPDES PERMIT  
ODUCT (AS IS) - INCINERATE OR BURY IN APPROVED LANDFILL

FIRE EXTINGUISHING INSTRUCTIONS\*\*\*

GENERAL-FIREFIGHTERS SHOULD WEAR POSITIVE PRESSURE SELF-CONTAINED  
EATHING APPARATUS (FULL FACE-PIECE TYPE).  
Y CHEMICAL, CARBON DIOXIDE, FOAM OR WATER

---SECTION 7-----SPECIAL PROTECTIVE EQUIPMENT-----

VENTILATION PROTECTION\*\*\*

EQUATE VENTILATION

RECOMMENDED RESPIRATORY PROTECTION\*\*\*

VENTILATION IS INADEQUATE OR SIGNIFICANT PRODUCT EXPOSURE IS LIKELY,  
E A RESPIRATOR WITH DUST/MIST CARTRIDGES

RECOMMENDED SKIN PROTECTION\*\*\*

BBER GLOVES

PLACE AS NECESSARY

RECOMMENDED EYE PROTECTION\*\*\*

LASH PROOF CHEMICAL GOGGLES

---SECTION 8-----STORAGE AND HANDLING PRECAUTIONS-----

STORAGE INSTRUCTIONS\*\*\*

GENERAL-KEEP CONTAINER CLOSED

ECIFIC- PROTECT FROM FREEZING

HANDLING INSTRUCTIONS\*\*\*

GENERAL-IMMEDIATELY REMOVE CONTAMINATED CLOTHING, WASH BEFORE REUSE

ECIFIC- NORMAL CHEMICAL HANDLING

---SECTION 9-----FEDERAL REGULATIONS-----

HA(29CFR)-FOR RESPIRATORY PROTECTION USE PROPERLY FITTED MSHA/NIOSH  
PROVED RESPIRATORY EQUIPMENT WITHIN USE LIMITATIONS. OTHERWISE, USE SUPPLIED  
R APPARATUS.

HA(40CFR)REPORTABLE QUANTITY: AS IS PRODUCT (HAZARDOUS SUBSTANCE)  
NOT APPLICABLE

HA(40CFR): IF DISCARDED, THIS MATERIAL BEARS HWI# NOT APPLICABLE

HA(49CFR)CLASSIFICATION: NOT APPLICABLE

THIS FORM IS ESSENTIALLY EQUAL TO OSHA 20 FORM. WHILE THE INFORMATION AND  
COMMENDATIONS SET FORTH HEREIN ARE BELIEVED TO BE ACCURATE AS OF THE  
DATE HEREOF, BETZ LABORATORIES, INC. MAKES NO WARRANTY WITH RESPECT THERETO  
AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.

HAROLD M. HERSH  
ENVIRONMENTAL INFORMATION COORDINATOR

