

BP CHEMICALS

BP Chemicals Inc. Ft. Amanda Road P.O. Box 628 Lima. Ohio 45802-0628 (419) 226-1200

VIA OVERNIGHT MAIL

Mr. Sam Nalluswami, Project Manager
Decommissioning and Regulatory Issues Branch
Division of Low-Level Waste Management and Decommissioning
Office of Nuclear Materials Safety and Safeguards
United States Nuclear Regulatory Commission
One White Flint North
11555 Rockville Road
Rockville, MD 20852

November 10, 1993

Re:

License No. SUB-908 Docket No. 040-07604

Subject:

Supplemental Data and Information

NRC Request of April 23, 1993

Dear Mr. Nalluswami:

BP Chemicals Inc. herewith submits its response to the United States Nuclear Regulatory Commission's April 23, 1993 request for supplemental data and information regarding the decontamination of certain facilities at its Lima. Ohio chemical manufacturing plant. The response for all but the last item of the request for additional information or clarification/correction is in the attached Exhibit A prepared by BP Chemicals' contractor, RUST Federal Services (formerly CWM-NRSI). The last item of information requested was as follows:

"What will be the final disposition of contaminated soil that remains with the ANI Plant and Thermaloxidizer area?"

Response:

As previously indicated in our March 3, 1993 letter to USNRC, BP Chemicals plans to place all contaminated soil in onsite disposal cells which conform to USEPA minimum technology standards for RCRA hazardous wastes. This plan will be pursued if it is supported by a pathways analysis and will be implemented upon receipt of an NRC license amendment authorizing onsite burial of low-level radioactive contaminated soil. A license amendment application for this work will be submitted after BP Chemicals receives approval of its license amendment application for onsite burial of mixed wastes which is currently under NRC review. A copy of the March 3, 1993 letter to USNRC, which describes the BP Chemicals plan for onsite disposal in more detail, is attached for your information as Exhibit B.

It is hoped that this response adequately resolves the NRC's questions and need for additional information. If there are any further questions, please give me a call at 419/226-1299.

Sincerely.

William M. Rupert, P.E.

Technical Specialist - Environmental

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WMR:II Enc.

cc: K. C. Lambert - USNRC - Region III WMR93/SN1110.doc

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EXHIBIT A

Mr. William M. Rupert, P.E. Technical Specialist Environmental BP Chemicals, Inc. Ft. Amanda Road P.O. Box 628 Lima, Ohio 45802-0628

SUBJECT: RESPONSE TO BP CHEMICAL'S REQUEST FOR ADDITIONAL INFORMATION RELATED TO THE CAT-21 D&D PROJECT DATED 13 AUGUST 1993.

Dear Mr. Rupert:

The following is Rust Federal Services, (formerly CWM-NRSI) response to the issues raised by the NRC's request for additional information related to the BP CAT-21 D&D Final Report (enclosure 1). This information is not intended to replace the CAT-21 Decommissioning Project Final Report or data maintained in the permanent project files.

* NRC Comment: Bullet 1 (Volume 1 of 3): The sixth bullet under your response to Items A1 and B1 states "The "B" reactor could not be decontaminated to meet the radiological release criteria". This statement is later contradicted in the response for Items A4, B4, and C2 which states that all post remedial action data, including Acrylonitrile Reactor B, met acceptable surface contamination levels.

RUST Answer: All post remedial action survey data on the Acrylonitrile Reactor A (internals and externals), Acrylonitrile Reactor B (externals only), the Central Warehouse and recycled Scrap Metal, met acceptable surface contamination levels as per U.S. Atomic Energy Commission Regulatory guide 1.86 as supported by tabulated data in the associated final report. This data was verified by the Oak Ridge Institute for Science and Education.

Decontamination efforts within the "B" Reactor were hampered by extremely restricted access and the requirement to keep all structures in an operational condition. Furthermore, the time constraint of the shutdown schedule was not sufficient for complete decontamination. The internals of the "B" Reactor do not meet the residual contamination limits due to fixed DU contamination remaining in some areas.

• NRC Comment: Bullet 2 (Volume 1 of 3): The Central Warehouse information proved in Enclosures 4 and 5, is not adequate. Is the data provided in the Enclosure 4 characterization data? Is the data provided in t Enclosure 5, the post-remedial action data? It is difficult for ORISE to establish the correlation between the

grid coordinates and the characterization data found in Enclosure 4, and the grid ID #'s and the post-remedial action data in Enclosure 5. Clarification of this is necessary to confirm that contaminated areas were remediated, and to determine the radiological conditions of those areas that were inaccessible at the time of the confirmatory survey. Please provide a detailed floor plan showing the grid system and grid ID #'s used within the Central Warehouse.

RUST Answer:

• NRC Comment: Bullet 3 (Volume 1 of 3): The response to Items Al and B1 indicate that concrete loading docks and large expansion joint areas were removed as part of the remedial activities. Were any samples collected beneath these areas to determine if soil contamination was present?

RUST Answer: Two large areas in the vicinity of the east and west loading docks required complete removal of the concrete floor slab due to deeply imbedded fixed contamination. Several large expansion joint areas were subjected to surgical removal in order to reach deeply imbedded DU material. No soil samples were taken of the underlaying area since it was evident that contamination did not migrate through the concrete layer. The entire slabs were only removed to facilitate proper restoration. The entire storehouse was subdivided and subjected to complete verification surveys in accordance with the methodology and release criteria of the Decommissioning Plan. All areas surveyed within the central storehouse met the radiological requirements for unrestricted release.

* NRC Comment: Bullet 4 Volume 1 of 3: The Central Warehouse data provided in Enclosure 5 indicates activity levels of 0 dpm/100cm². A more appropriate value to report is the minimum detectable activity level.

RUST Answer: For data in Enclosure 5, the Alpha MDA= 31dpm/100cm², Beta MDA= 72dpm/100cm². This information is supported on the Contamination/Radiation survey reports for the Storehouse. The data listed as 0 dpm/100cm² indicated less than the above MDA levels.

• NRC Comment: Bullet 5 Volume 3 of 3, Enclosure 8: Some figures provided in Enclosure 8 are incorrectly keyed to indicate where ORISE collected samples. It appears that BP Chemicals misinterpreted areas indicated as remediated on ORISE's figures to also mean soil samples were collected.

RUST Answer: Refer to enclosures 1,2, and 3 for corrected figures.

• NRC Comment: Bullet 6 Volume 3 of 3, Enclosure 8: Figure: ACRYLO II SOIL AND GRID LAYOUT AND STATUS, Grid Coordinate: S3982, W4218:

It is unclear whether BP Chemicals has addressed the location with elevated uranium concentrations levels which ORISE identified at this grid.

RUST Answer: Grid Coordinate, S3982, W4218, is identified on "BP Chemicals Decommissioning Project Soil Survey Data Sheet as W4250, S3950 and was addressed as indicated by enclosure 4.

Respectfully

Allen Flath Manager of Projects

enclosures:

- BP Chemical Letter and NRC Letter containing questions answered in this package (3 pages)
- 2) Detailed warehouse Grid maps (32 pages)
 - Detailed Ceiling/Floor grid maps (folded prints, 2 pages)
- 3) Catalyst Plant Perimeter Soil Grid Layout and Status (1 page)
- 4) Acrylo II Soil Grid Layout and Status (1 page)
- 5) Impoundment Pond Area Soil Grid Layout and Status (1
- 6) Grid Coordinate, S3982, W4218 Soil Survey Data Sheets (12 pages)

ENCLOSURE 1



BP CHEMICALS

EP Chemidate Inc. Ft. Amende Relea P.O. Baz 528 : Lime. Onto 45882-0628 (419) 226-1206

Mr. Al Flath RUST International 140 Stoneridge Drive Columbia, SC 29210

August (13, 1993

Subject:

NRC Comments on Supplemental Data and Information Submitted January 13, 1993

Dear Al:

The NRC has commented on the package of supplemental data and information prepared by RUST International (formerly SWM Nuclear Remedial Services, Inc.) and submitted by BP Chemicals on January 13, 1993. A copy of the NRC comments are herewith forwarded for your review. It is requested that RUST International prepare a response to the NRC comments and forward that response to my attention at BP Chemicals for subsequent submission to NRC.

As soon as you have had a chance to review the NRC comments and assess the amount of effort needed to respond, please call me at 419/226-1229.

Sincerely.

William M. Rupert P.E.

Technical Specialist - Environmental

WMRII

CC:

R. A. DeLeonardis

S. M. Maki

H. M. Blythe

P. C. Campbell

File R9-93

WMR93/AF0813.doc



NUCLEAR REGULATORY COMMISSION WASHINGTON, D. C. 20686

APR 2 3 1993

Mr. William M. Rupert, P.E. Technical Specialist Environmental BP Chemicals, Inc. Ft. Amanda Road P.O. Box 628 Lima, Ohio 45802-0628

SUBJECT: BP CHEMICALS AMERICA, INC., LIMA, OHIO SUPPLEMENTAL DATA AND INFORMATION

Dear Mr. Rupert:

The Oak Ridge Institute for Science and Education (ORISE) reviewed: the supplemental data and information provided in the 3 Volume package on January 13, 1993, by 8P Chemicals, Inc. (BP Chemicals). This supplemental data and information were necessary for satisfactory performance of the confirmatory surveys of the site as part of the independent verification process. The supplemental data and information were provided to fill some data gaps that had been previously identified. The information addressed most of the data gaps. However, some of the information requires clarification or correction in order for ORISE to complete the confirmatory process and to finalize the draft reports.

The following is a summary of the request for additional information or clarification/correction:

- Nolume 1 of 3: The sixth bullet under your response to Items Al and Bl states "The "B" reactor could not be decontaminated to meet the radiological release criteria". This statement is later contradicted in the response for Items A4, B4, and C2 which states that all post remedial action data, including Acrytonitrile Reactor B, met acceptable surface contamination levels.
- * Volume 1 of 3: The Central Warehouse information provided in Enclosures 4 and 5, is not adequate. Is the data provided in the Enclosure 4 characterization data? Is the data provided in Enclosure 5, the post-remedial action data? It is difficult for ORISE to establish the correlation between the grid coordinates and the characterization data found in Enclosure 4, and the grid 10 is and the post-remedial action data in Enclosure 5. Clarification of this is necessary to confirm that contaminated areas were remediated, and to determine the radiological conditions of those areas that were inaccessible at the time of the confirmatory survey. Please provide a detailed floor plan showing the grid system and grid ID #'s used within the Central Warehouse.
- Volume 1 of 3: The responses to Items Al and Bl indicate that concrete loading docks and large expansion joint areas were removed as part of the remedial activities. Were any samples collected beneath these areas to determine if soil contamination was present?

Enclosure (1)

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Mr. William M. Rupert, P.E.

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- Volume 1 of 3: The Central Warehouse data provided in Enclosure 5 indicates activity levels of 0 dpm/100 cm². A mere appropriate value to report is the minimum detectable activity lavel.
- Volume 3 of 3. Enclosure 8: Some figures provided in Enclosure 8 are incorrectly keyed to indicate where ORISE collected samples. It appears that BP Chemicals misinterpreted areas indicated as remediated on ORISE's figures to also mean soil samples were collected.

ORISE collected samples at the following locations:

Figure: ACRYLO II SOIL GRID LAYOUT AND STATUS

Block 23

Grid coordinate: S3700, W4300

Figure: CATALYST PLANT PERIMETER SOIL GRID LAYOUT AND STATUS

Blocks 14 and 15

Figure: IMPOUNDMENT POND AREA SOIL GRID LAYOUT AND STATUS;

Blocks 1, 2, 11, 12, and the block northwest of block 12 & second block west of block 11.

Grid coordinate: S3050, W3950

volume 3 of 3. Enclosure 8:

Figure: ACRYLO II SOIL AND GRID LAYOUT AND STATUS

Grid coordinate: \$3982, W4218

It is unclear whether BP Chemicals has addressed the location with elevated uranium concentration levels which ORISE identified at this grid.

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If you have any questions, please contact Sam Nalluswami of my staff at (301) 504-2502.

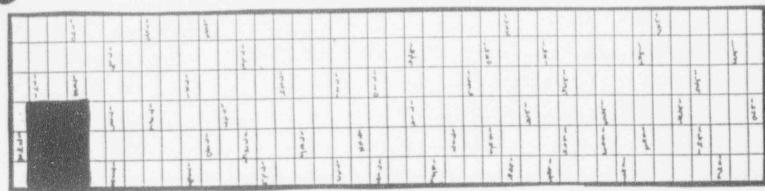
Jih W. Austin

John H. Austin, Chief 1 Decommissioning and Regulatory

Issues Branch

Division of Low-Level Waste Management

ENCLOSURE 2



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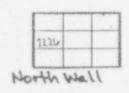
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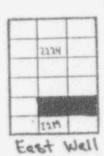
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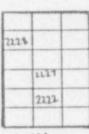




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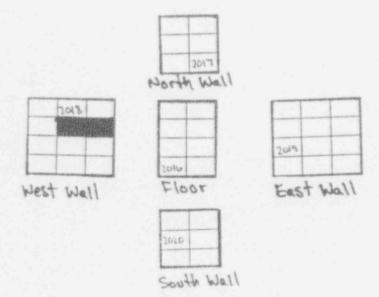




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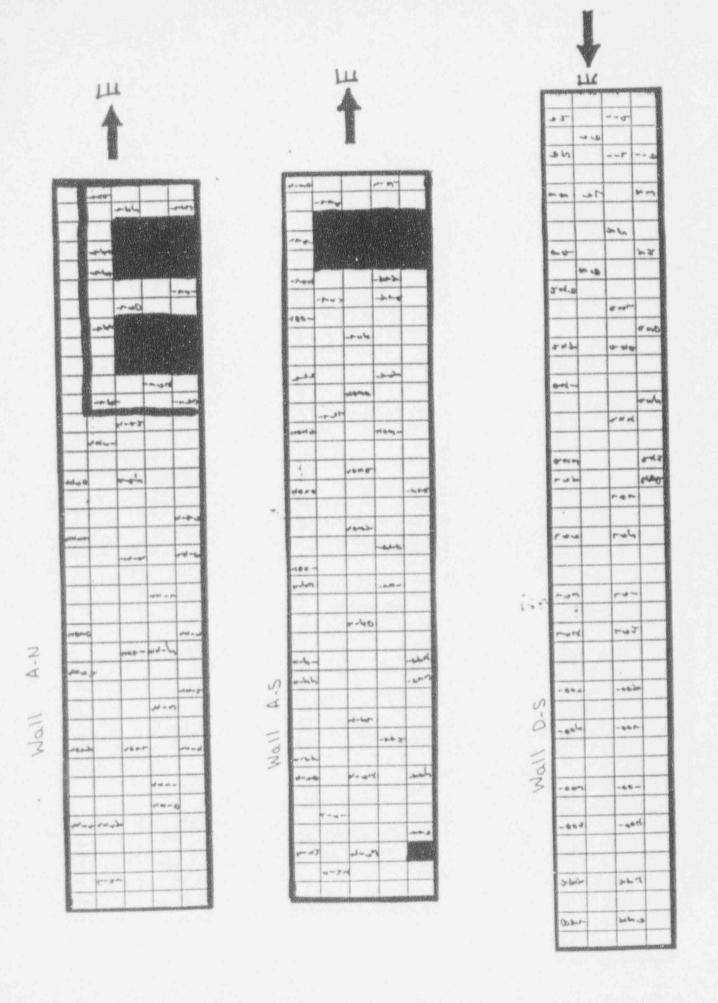
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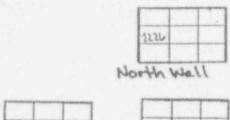
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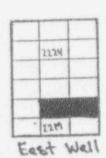
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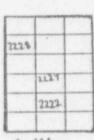




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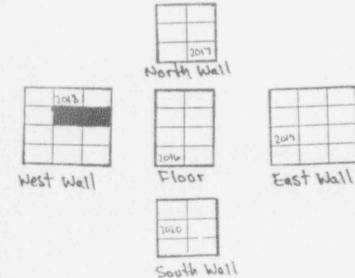




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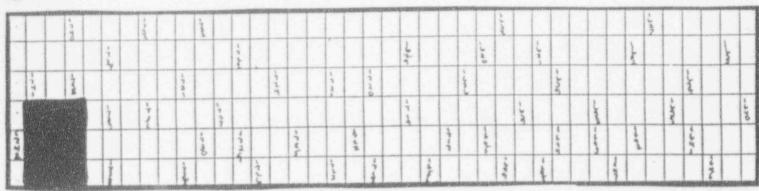
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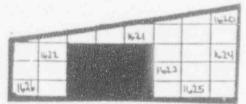
Wall C-SI- North View



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Wall C-SI South View





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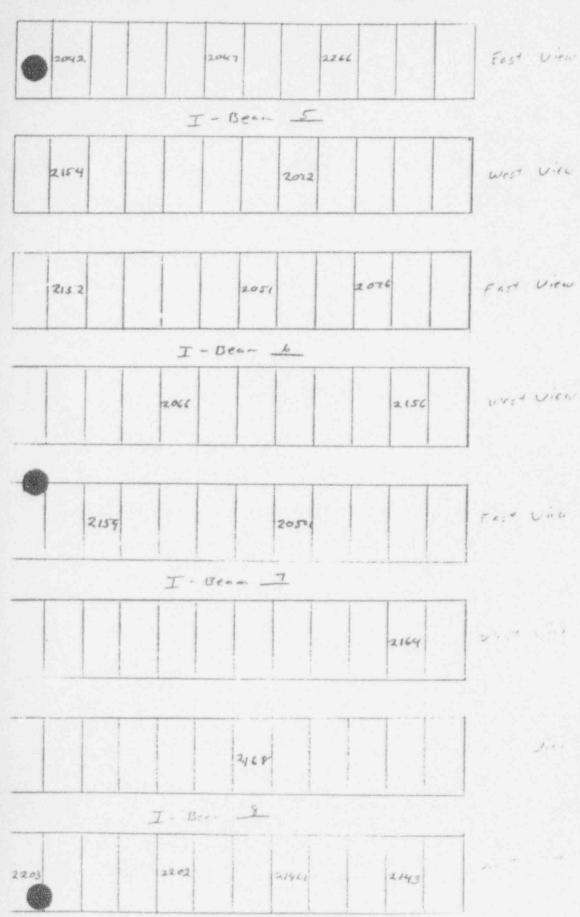
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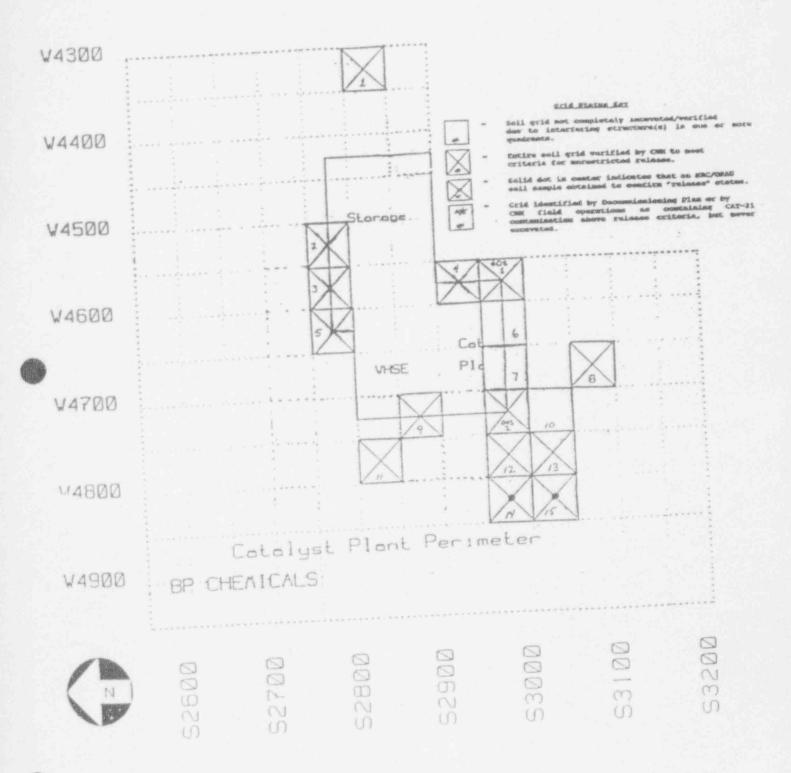
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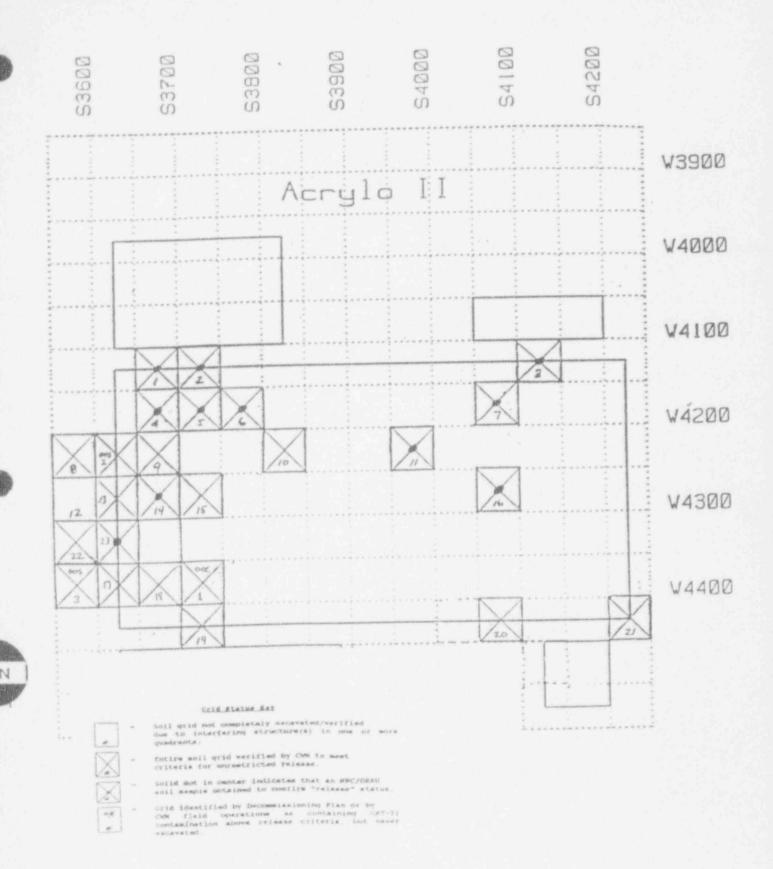
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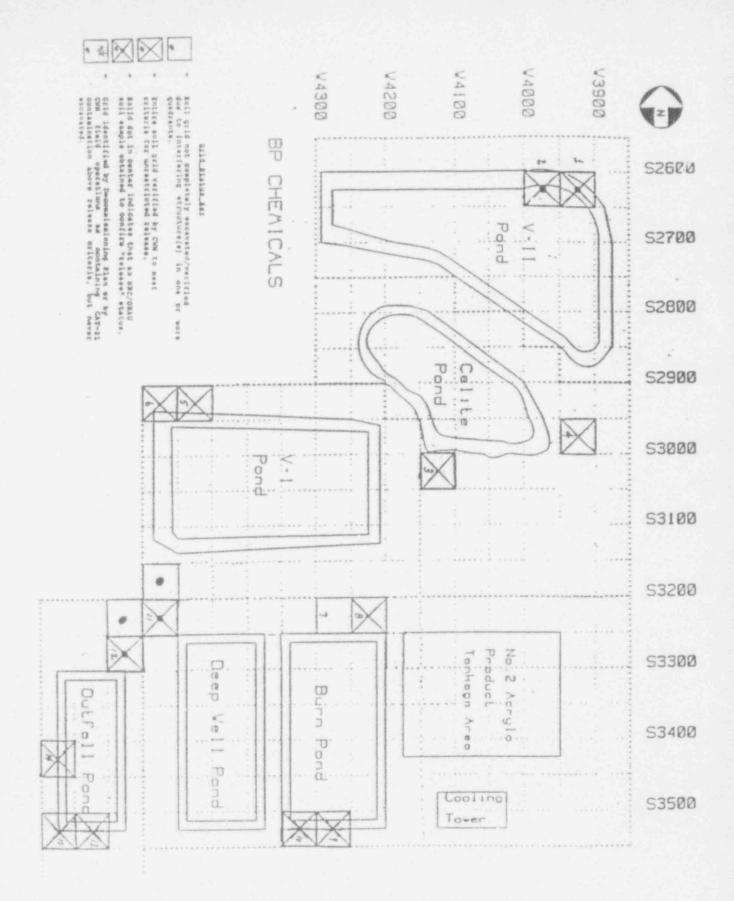
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CATALYST PLANT PERIMETER SOIL GRID LAYOUT AND STATUS





ACRYLO II SOIL GRID LAYOUT AND STATUS



IMPOUNDMENT POND AREA SOIL GRID LAYOUT AND STATUS

• CHEM-NUCLEAR ENVIRONN. STAL SERVICES, INC.

В	P	Ch	emi	cals	CAT	-21	Proj	ect
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Excavation Tracking Sheet

Grid Number://				Grid Coordinate:	4250 395	50
Excavation Volume Estimate:	25	Cu Ft	6 in			

Max Volume W/O BP Approval: 75 Cu Ft

Date	Amount Soil/Gravel Excavated (Cu Ft)	ESTIMATED RATIO (SOIL/GRAVEL)	ESTIMATED DISPOSED SOIL (Cu Ft)	ESTIMATED GRAVEL SCREENED	Gravel SCRAPED (CU FT)
9-4	20	_		~	40
Total(s)	20				40

Date/Time Maximum	Volume W/O BP	Approval Exceeded:	

BP Approval To Proceed: ______Date/Time: ______

ACRYLLO II

GRID //			
LOCATION 4250 3950			
Date permission requested for gri		9-10-91	
LETHTOOTAL FA PARVETTE AFMILLE	Maj d unas	9-11-91 Date	

BP CHEMICALS DECOMMISSIONING PROJECT SOIL SURVEY DATA SHEET

LOCATION: Acryllo TT GRID NO .: W4250 \$ 3950

CNES GRID NO .: 11 DATE SURVEYED: 9-4-91

SURVEYOR: 5 Wood

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************ ****************** OS-SEP-91 14:17:43 ************* 4200/3950 11A ACR2 VERIF SPECTRAL FILE NAME: AC944. DAT SAMPLE DATE: 04-SEP-91 14:00:00 SAMPLE IDENTIFICATION: SAMPLE#4 TYPE OF SAMPLE: SOIL SAMPLE QUANTITY: 645.0000 UNITS: GRAMS SAMPLE GEOMETRY: MARINELLI EFFICIENCY FILE NAME: MARINELI.EFF ACQUIRE DATE: 05-SEP-91 14:06:33 * FWHM(1332) 1.973 PRESET TIME(LIVE): 600. SEC * SENSITIVITY: 10.000 ELAPSED REAL TIME: 600. SEC * SMAPE PARAMETER : 10.0 % ELAPSED LIVE TIME: 600. SEC * NBR ITERATIONS: 10. *** * LIBRARY: SOIL. LIB DETECTOR: DTR #1 CALID DATE: 27-AUG-91 09:20:30 * ENERGY TOLERANCE: 1.250 KEV
KEV/CHNL: .1702247 * HALF LIFE RATIO: 8.00
OFFSET: -.6738562 KEV * ABUNDANCE LIMIT: 80.00%

ENERGY WINDOW 16.35 TO 1393.81

PK IT ENERGY AREA BKGND FWHM CHANNEL LEFT FW CTS/SEC %CRR FIT

1 0 63.22 192. 97. .75 375.37 365 22 3.20E-01 15.6
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PEAK SEARCH COMPLETED (REV 15.8 - ND PC VERSION MAR 90)

NUCLIDE IDENTIFICATION SYSTEM (ND PC VERSION DEC 88)
SUMMARY OF NUCLIDE ACTIVITY

AL LINES IN SPECTRUM
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IDENTIFIED IN SUMMARY REPORT
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NATURAL PRODUCT

NUCLIDE SBHR HLIFE DECAY PCI / GRAMS ERROR XERR TH-234 NP 24.10D 1.029 1.033E 1 9.579E -1 9.27

MINIMUM DETECTABLE ACTIVITY REPORT (ND PC VERSION SEP 89)

PEAK WIDTH = 3.00 FWHM. CONFIDENCE LEVEL = 4.66.

			MINIMUM
NUCLIDE	BKG	ENERGY	PCI /GRAMS
PA-234M PA-234 U-234 U-235 TE-132	12. 5. 63. 116.	1001.00 900.00 53.00 185.72 772.70	HALF LIFE TOO SHORT 8.9074E+02 0.0000E+00 1.6777E-01 1.3066E-01
AN-511	14.	511.01	6.9609E-02

******* 05-SEP-91 14:06:37 *********** 4250/3950 11B ACR2 VERIF SPECTRAL FILE NAME: AC943. DAT SAMPLE DATE: 05-SEP-91 14:00:00 SAMPLE IDENTIFICATION: SAMPLE#3 TYPE OF SAMPLE: SOIL SAMPLE QUANTITY: 687.0000 UNITS: GRAMS SAMPLE GEOMETRY: MARINELLI EFFICIENCY FILE NAME: MARINELI.EFF ACQUIRE DATE: 05-SEP-91 13:55:56 * FWHM(1332) PRESET TIME(LIVE): 600. SEC * SENSITIVITY: 10.000 ELAPSED REAL TIME: 600. SEC * SHAPE PARAMETER: 10.0 % ELAPSED LIVE TIME: 600. SEC * NBR ITERATIONS: 10. DETECTOR: DTR #1 * LIBRARY: SOIL. LIB CALIB DATE: 27-AUG-91 09:20:30 * ENERGY TOLERANCE: 1.250 KEV KEV/CHNL: .1702247 * HALF LIFE RATIO: 8.00 OFFSET: -.6738562 KEV * ABUNDANCE LIMIT: 80.00%

ENERGY WINDOW 16.35 TO 1393.81

PK IT ENERGY AREA BKGND FWHM CHANNEL LEFT FW CTS/SEC %ERR FIT

1 0 63.32 299. 128. .86 375.92 366 24 4.98E-01 12.0
2 0 92.49 400. 67. .99 547.30 539 18 6.66E-01 7.1
3 0 351.92 115. 16. .77 2071.32 2059 24 1.92E-01 12.1
4 0 609.75 72. 16. .85 3586.01 3577 18 1.20E-01 16.1

PEAK SEARCH COMPLETED (REV 15.8 - ND PC VERSION MAR 90)

NUCLIDE IDENTIFICATION SYSTEM (N.D PC VERSION DEC 88)

SUMMARY OF NUCLIDE ACTIVITY PAGE 1

TOAL LINES IN SPECTRUM 4
UNIDENTIFIED PEAKS 2
IDENTIFIED IN SUMMARY REPORT 2 50.00%

NATURAL PRODUCT

NUCLIDE SBHR HLIFE DECAY PCI / GRAMS ERROR ZERR TH-234 NP 24.10D 1.000 1.204E 1 8.573E -1 7.12

MINIMUM DETECTABLE ACTIVITY REPORT (ND PC VERSION SEP 89)

WIDTH = 3.00 FWHM. CONFIDENCE LEVEL = 4.66.

			MINIMUM
NUCLIDE	BKG	ENERGY	PCI /GRAMS
PA-234M	9.	1001.00	2.7462E+03
PA-234	8.	900.00	8.8942E+01
U-234	80.	53.00	0.0000E+00
U-235	116.	185.72	1.5752E-01
TE-132	9.	772.70	9.8957E-02
AN-511	22.	511.01	8.1925E-02
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4250/3950 11C ACR2 VERIF SPECTRAL FILE NAME: AC925.DAT SAMPLE DATE: 04-SEP-91 13:55:00 SAMPLE IDENTIFICATION: SAMPLE#5 TYPE OF SAMPLE: SOIL SAMPLE QUANTITY: 831.0000 UNITS: GRAMS SAMPLE GEOMETRY: MARINELLI EFFICIENCY FILE NAME: MARINELI, EFF ACQUIRE DATE: 05-SEP-91 11:34:39 * FWHM(1332) 1.973 PRESET TIME(LIVE): 600. SEC * SENSITIVITY: 10.000 ELAPSED REAL TIME: 600. SEC * SHAPE PARAMETER : 10.0 % ELAPSED LIVE TIME: 600. SEC * NBR ITERATIONS: 10. * LIBRARY: SOIL.LIB DETECTOR: DTR #1 CALIB DATE: 27-AUG-91 09:20:30 * ENERGY TOLERANCE: 1.250 KEV KEV/CHNL: .1702247 * HALF LIFE RATIO: 8.00 OFFSET: -.6738562 KEV * ABUNDANCE LIMIT: 80.00%

ENERGY WINDOW 16.35 TO 1393.81

PK IT ENERGY AREA BKGND FWHM CHANNEL LEFT FW CTS/SEC %ERR FIT 1 0 63.21 687. 185. .88 375.31 364 21 1.15E+00 6.5 2 0 92.53 1001. 189. 1.01 547.56 538 26 1.67E+00 5.0 3 0 185.72 186. 41. .77 1095.00 1083 22 3.10E-01 10.8 PEAK SEARCH COMPLETED (REV 15.8 - ND PC VERSION MAR 90)

NUCLIDE IDENTIFICATION SYSTEM SUMMARY OF NUCLIDE ACTIVITY	(ND PC VERSION DEC	PAGE 1
OAL LINES IN SPECTRUM UNIDENTIFIED PEAKS IDENTIFIED IN SUMMARY REPORT	3 0 100.00%	
NATURAL PRODUCT		1-SIGMA
NUCLIDE SBHR HLIFE DECAY TH-234 NP 24.10D 1.026 U-235 NP 7.04E+08Y 1.000	PCI /GRAMS 2.557E 1 4.396E -1	ERROR %ERR 1.266E 0 4.95 4.735E -2 10.77

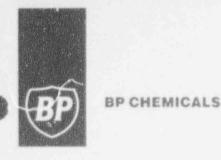
MINIMUM DETECTABLE ACTIVITY REPORT (ND PC VERSION SEP 89)

PEAK WIDTH = 3.00 FWHM. CONFIDENCE LEVEL = 4.66.

			MINIMUM
NUCLIDE	BKG	ENERGY	PCI /GRAMS
PA-234M	48.	1001.00	HALF LIFE TOO SHORT
PA-234	12.	900.00	8.3858E+02
U-234	151.	53.00	0.0000E+00
TE-132	12.	772.70	1.1459E-01
AN-511	19.	511.01	6.2941E-02

EXHIBIT B





Mr. Sam Nalluswami, Project Manager
Decommissioning and Regulatory Issues Branch
Division of Low-Level Waste Management and Decommissioning
Office of Nuclear Materials Safety and Safeguards
United States Nuclear Regulatory Commission
One White Flint North
11555 Rockville Road
Rockville, MD 20852

March 3, 1993

RE: License No. SUB-908 Docket No. 040-07604

Subject: Site-Wide Decontamination and Decommissioning Strategy

Dear Mr. Nalluswami:

On November 17, 1992, BP Chemicals submitted for NRC approval a document entitled "Revised RESRAD Analysis of the Pond Area." The subject document was intended to demonstrate that BP Chemicals can bury all remaining radiologically contaminated soil and debris, including mixed wastes, on site while satisfying all NRC concerns regarding long-term radiological impact. While the Revised RESRAD Analysis of the Pond Area Report may demonstrate an acceptable long-term impact, further clarification of BP Chemicals' strategy may be needed in order to relate that report to our ongoing decommissioning activities and the various documents which have been submitted to NRC over the past several years.

Therefore, the following description of our plant-wide strategy is provided for your information. The strategy deals with all radioactive wastes, contaminated materials and debris including mixed wastes known to exist at BP Chemicals, Lima. Ohio, with the exception of one contaminated acrylonitrile reactor which currently remains in service. The quantities of these wastes, materials and debris have previously been provided in a July 2, 1992 letter to Robert M. Bernero of NRC and in the Revised RESRAD Analysis of the Pond Area Report submitted on November 17, 1992. The categories of these wastes, materials and debris are as follows:

- Mixed Waste (i.e., radioactive and RCRA hazardous waste) including sludge, contaminated soil and debris contained in and underlying four ponds (Deepwell Pond, Burn Pond, V-1 Pond and Celite Pond);
- Mixed Waste including sludge, contaminated soil and debris buried at SWMU No. 102 (landfill);
- Mixed Waste contaminated soil at SWMU No. 98 (catalyst settler);
- Low-Level Radioactive Waste consisting of drums of sand blast waste from the decontamination and decommissioning of the catalyst plant;

Low-Level Radioactive Waste consisting of contaminated soil remaining from the partial decontamination of the Acrylo I Production Area;

Our strategy is based on meeting all conditions of our NRC license as well as meeting all other known requirements. One such requirements is that mixed wastes and low-level radioactive wastes may not be placed in the same disposal cell according to USEPA. Therefore, separate cells are proposed to accommodate known quantities of mixed wastes and known quantities of low-level radioactive waste. A second requirement is that of timing. Mixed wastes must be dealt with in a timely fashion to comply with USEPA and Ohio EPA requirements as well as NRC requirements. Therefore, mixed waste activities are planned prior to work on low-level radioactive wastes. A third requirement is to locate the various disposal cells in close proximity to each other for ease of management, site maintenance and security. Since the northeast corner of the plant, known as the East Ponds Area, is home to the four ponds containing mixed waste, this area has been selected for the future site of all mixed waste and low-level radioactive waste disposal cells. A drawing of the East Ponds Area of the plant is attached for reference.

The strategy of BP Chemicals is organized into three phases as described below. Each phase will be implemented sequentially as necessitated by the physical limitations of the site. Phase I will be the mixed waste pond closure. Phase II will be the remediation of all RCRA Solid Waste Management Units containing mixed wastes. Phase III will be the remediation of all low-level radiologically contaminated soil and debris from the Acrylo I Production Area. A more detailed description of each phase follows:

Phase I

Four ponds in the East Ponds area contain mixed waste sludges and debris. The ponds are identified as Deepwell Pond, Burn Pond, V-1 Pond and Celite Pond. The soil underlying these ponds is also suspected of being contaminated with low-level radioactive and RCRA hazardous waste constituents. A plan has been developed which calls for the consolidation of all sludges and contaminated soil from V-1 Pond and Celite Pond into Burn Pond and Deepwell Pond for temporary storage. Upon confirmatory survey and release of the decontaminated V-1 Pond and Celite Pond, these two ponds will be converted into disposal cells meeting RCRA minimum technology design requirements. All sludge will be stabilized and placed in these cells to be known as V-1 Cell and Celite Cell. All contaminated soil will also be placed in these cells to the limit of their combined capacities. Excess quantities of contaminated soil (if such exists) will be stockpiled for Phase II. Contaminated debris will be decontaminated for unrestricted release or, if this is not possible, will be placed in the V-1 and Celite Cells.

A portion of Phase I is currently being implemented in accordance with conditions of BP Chemicals' existing NRC license. This portion is identified as Division I work. The remainder of Phase I which may not be implemented without additional NRC approvals is designated as Division II work. Division II work is currently on hold pending receipt of NRC approvals.

BP Chemicals has submitted and received NRC approval of a health and safety plan as well as a safety analysis report, both of which were needed to initiate Division I work. BP Chemicals has also submitted a license amendment application which NRC approved to authorize deepwell injection of pond water as a part of Division I work. A soil sampling plan, a project-specific pathway analysis report, a license amendment application to authorize on-site disposal and a financial assurance package have also been submitted to NRC in conjunction with the project. None of these documents have been approved by NRC. The delays in approval of the soil sampling plan and the project-specific pathway analysis report presently threaten to cause the shutdown and demobilization of the project. All of the other unapproved documents could likewise cause delay, shutdown and demobilization in the future if they are

not approved in a timely fashion. BP Chemicals' schedule calls for completion of all Division I work by April 30, 1993 and for completion of all Division II work by September 30, 1993.

Phase II

A third cell will be constructed at the site presently occupied by Burn Pond and Deepwell Pond. This cell will be known as Burn Cell. It will be used to dispose of any excess contaminated soil from Phase I work. It may also be used to dispose of any mixed waste sludges, contaminated soil and debris excavated from SWMU Nos. 98 and 102 as a part of the plant's corrective measures implementation per corrective action requirements of our USEPA RCRA Permit. The possible use of the Burn Cell in conjunction with the facility's corrective action program is uncertain pending receipt of approvals from USEPA and Ohio EPA. The Burn Cell will be designed to meet RCRA minimum technology standards.

A license amendment application for Phase II together with all other required documents is currently being finalized for submission to NRC. Construction of the Burn Cell will be dictated by receipt of approvals from NRC. USEPA and Ohio EPA, but it is anticipated that it would be initiated immediately upon completion of Phase I work.

Phase III

A fourth disposal cell will be constructed at the present site of V-2 Pond. This cell will be known as V-2 Cell. It will be used to dispose of all low-level radioactive contaminant materials including the sand blast waste from the catalyst plant decontamination and decommissioning and contaminated soil from the Acrylo I decontamination and decommissioning. Contaminated debris will be decontaminated for unrestricted release or, if this is not possible, will be disposed of in V-2 Cell. V-2 Cell will be constructed to meet the same design standards incorporated in the other cells.

Phase III will require an additional NRC license amendment. Freparation of the application has not yet been initiated. The project will be scheduled for completion no later than the expiration date of BP's current license (1997). The actual schedule will be dictated by receipt of NRC approvals as well as by USEPA regulations currently pending, which affect the continued use of V-2 Pond.

It is hoped that this explanation of BP Chemicals' strategy for decontaminating and decommissioning the Lima site provides the NRC with a good overview and assists the NRC in its ongoing review of documents affecting the proposed work at our site. If there are any questions, please give me a call at 419/226-1299.

Sincerely.

William M. Rupert, P.E. Technical Specialist - Environmental

WMR:II

cc: Ken Lambert - NRC Region III

bcc: P. C. Campbell H. M. Blythe R. A. DeLeonardis WMR93/SN0303.doc

Z. POND No 2 ACKN D PRODUCT TANKAGE AREA COOK ING TOWER BP CHEMICALS - LIMA POND O.A.O CELITE 01 No.2 ACRMIDITIBLE CHOM NAME POND 00 PUMP DINOM DIEES ARETT STURACE CIPIDINA CIPLILLANT MARKINCKISE 3 PAS STORING SHINN JOYHWYI ZJE 275 SHENDING Danness de Monteste