Template NMSS/RGN Mati-005



UNITED STATES NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

March 3, 2000

Mr. Ben Baker Project Manager The Dow Chemical Company 1261 Building Midland, Michigan 48667

SUBJECT: AMENDMENT OF THE DOW CHEMICAL COMPANY LICENSE TO APPROVE THE REMOVAL OF THE MIDLAND, MICHIGAN, SITE FROM THE LICENSE (TAC# L60463)

Dear Mr. Baker:

In accordance with your application dated August 20, 1997, and pursuant to Part 40 to Title 10 of the Code of Federal Regulations, Materials License STB-527, is hereby amended to remove the Midland, Michigan, site from Dow Chemical Company's (DOW's) license.

The Nuclear Regulatory Commission approved Dow's decommissioning plan (DP) under a license amendment on July 19, 1996, based on a determination that the DP was compatible with the criteria in the Site Decommissioning Management Plan Action Plan of April 16, 1992, (57 FR 13389). The license amendment is documented in a Safety Evaluation Report and an Environmental Assessment. A notice of Environmental Assessment, Finding of No Significant Impact (FONSI) and Opportunity for Hearing was published in the Federal Register (FR) (61 FR 37772) on July 19, 1996, in connection with the license amendment approving the DP.

Another license amendment was issued on July 21, 1997, to approve the decommissioning criteria and the final survey plan for decommissioning. This license amendment is also documented in a Safety Evaluation Report and an Environmental Assessment. A notice of Environmental Assessment, FONSI and Opportunity for Hearing was published in the FR (62 FR 37081) on July 10, 1997, in connection with the license amendment approving the decommissioning criteria and the final survey plan.

Based on the decontamination performed by Dow at the Midland site, a final confirmatory survey of the site was performed on May 13, 1997, by the NRC's Region III staff. As documented in the NRC Report No. 040-00017/97001(DNMS) dated June 4, 1997, the NRC has determined that Dow Chemical at the Midland site does not have residual radioactive material in excess of the NRC's unrestricted release guidelines.

Consistent with 10 CFR 40.42(k), the NRC has determined that:

- (1) Source material has been properly disposed;
- (2) Radioactive contamination has been remediated to satisfy the approved decommissioning criteria;
- A radiological survey has been performed which demonstrates that the Midland site is suitable for unrestricted release in accordance with 10 CFR 20.1401(b)(2);
- (4) NRC Form 314 (Certificate of Disposition of Materials) has been received.

The NRC staff has concluded that this license amendment concerns administrative changes and meets the requirements, under the categorical exclusion in accordance with 10 CFR 51.22(c)(11), that: (i) there is no significant change in the types or significant increase in the amounts of any effluents that may be released offsite; (ii) there is no significant increase in individual or cumulative occupational radiation exposure; (iii) there is no significant construction impact; and (iv) there is no significant increase in the potential for, or consequences from radiological accidents. Therefore, neither an environmental assessment nor an environmental impact statement is required.

Accordingly, Conditions 8.A., 9, 10, and 12.A. have been revised and read as follows:

- 8.A. All residual contamination which currently exists at Dow's Bay City, MI site.
- 9. Authorized Use: Licensed material will be possessed and used during site activities leading to its removal from the Bay City site in accordance with the statements, representations, and procedures contained in the amendment request dated October 12, 1995, and the supplemental information submitted by letters dated December 6, 1995, March 11, 1996, and May 24, 1996.
- 10. Authorized Place of Use: The existing Dow site in Bay City, Ml.
- 12.A. The Dow Chemical Company will conduct the final survey of the Bay City site in accordance with the final survey plans submitted by letters dated October 12, 1993, December 6, 1995, March 11, 1996, and March 31, 1997.

All other conditions of this license will remain the same. Please review the enclosed revised Materials License STB-527. If you have any questions, please contact Sam Nalluswami of my staff, at (301) 415-6694.

Sincerely, Original signed by: Larry W. Camper, Chief Decommissioning Branch Division of Waste Management Office of Nuclear Material Safety and Safeguards

Docket 040-00017 License STB-527 Enclosure: Materials License STB-527 cc: D. Minnaar, MDEQ

This document should / X / should not / / be made available to the PUBLIC SMN 2/14/00 Ticket No.: DCB-0006

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Arry W. Camper Chief Decommissioning Branch Division of Waste Management Office of Nuclear Material Safety and Safeguards

Docket 040-00017 License STB-527

Enclosure: Materials License STB-527

cc: D. Minnaar, MDEQ

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Code repres ransfe lesigr applic as ame	of Federal Regulations, Chapter sentations heretofore made by the l er byproduct, source, and special n nated below; to deliver or transfer cable Part(s). This license shall be o	254, as amended, the Energy Reorgani I, Parts 30, 31, 32, 33, 34, 35, 36, icensee, a license is hereby issued au uclear material designated below; to u such material to persons authorized to leemed to contain the conditions speci- ble rules, regulations, and orders of th ow.	39, 40, and thorizing the ise such mate to receive it in fied in Section	70, and in relia licensee to receiv rial for the purpo n accordance wit n 183 of the Atom	nce on state ve, acquire, po se(s) and at t h the regulat nic Energy A	ments a ossess, a he place ions of ct of 19
	Licensee					
		2.15				
•		3. License Number		3-527		
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	1261 Building			rch⁻31, 1978		
	Midland, MI 48667	5. Docket Referen		01 31, 1978)-00017		
	product, Source, and/or ecial Nuclear Material	7. Chemical and/or Physica Form		8. Maximum	ess at Any On	
Α.	Thorium	A. Contaminated soil sludge, sediment trash, building rubble, structure and any other contaminated material.		contamina	ation whic / exists a	at
·		CONDITIONS				
9.	activities leading statements, repres dated October 12,	icensed material shall be to its removal from the E entations, and procedures 1995; and the supplementa 1995; March 11, 1996; and	Bay City s contained informat	site in acco 1 in the ame 2 ion submitt	rdance wi ndment re	th the quest
0.	Authorized Place o	f Use: The existing Dow s	site in Ba	ay City, MI.		
1.	The Radiation Safe	ty Officer for this licens	se is Kenr	neth Baker.		

NRC FORM 37 (7-94)	74A U.S. NUCLEAR REGULATORY COMMISSIO		PAGI
		SIB-527	
	MATERIALS LICENSE SUPPLEMENTARY SHEET	Docket or Reference Number 040-00017	
12.A.	The Dow Chemical Company shall conduct th accordance with the final survey plans su 1993; December 6, 1995; March 11, 1996; a	ubmitted by letters dated October 12	
12.B.	The Dow Chemical Company shall use the re established in submittal of March 11, 199]
	FOR TH	HE U.S. NUCLEAR REGULATORY COMMISSIO)N
	D D	By: Ann W. Camper, Chief Decommissioning Branch Division of Waste Management Office of Nuclear Material Safety and Safeguards	
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Docket 040-00017 License STB-527 Enclosure: Materials License STB-527

cc: D. Minnaar, MDEQ

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Docket 040-00017 License STB-527

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From:	Bruce Jorgensen
То:	Sam Nalluswami
Date:	Tue, Feb 22, 2000 1:18 PM
Subject:	Re: DOW - REMOVAL OF MIDLAND SITE FROM THE LICENSE

Sam - only a couple of minor editorial matters, which I've highlighted by bold and underlining on the attached.

With or without the minor changes, I concur in the action proposed.

>>> Sam Nalluswami 02/22 9:54 AM >>> Bruce:

The e-mail was down so far and hence the delay in sending you the letter to Dow Chemicals regarding the removal of the Midland site from Dow's license. Myself, RNelson, and STreby/OGC have concurred on the letter. Please review and provide your input/concurrence.

Any questions? Please call me. Thanks. Sam N.

	DCB TICKETS 2000
Ticket No.	DCB-0006
Today's Date	10/6/99
Original Due Date	2/9/00
Extension Date	6/28/00
Section/Lead	FDS/SMN
Decription	8/20/97 Ltr. To: Materials Lic. Section, R-III From: Larry P. Giebelhaus, DOW Subj: Copy of 8/7/97, Ltr. From J. Hickey requesting submission of NRC form 314 for fulfullment.
Completion Date	3/3

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The Dow Chemical Company Midiand, Michigan 48667

40-17

MICHIGAN OPERATIONS August 20, 1997

Materials Licensing Section U.S. Nuclear Regulatory Commission, Region III 801 Warrenville Road Lisle, IL 60532-4351

Enclosed please find a copy of an August 7, 1997 letter from Mr. John W. N. Hickey of the NRC to

Mr. Larry Giebelhaus of The Dow Chemical Company requesting submission of NRC form 314

to Region III.

Form 314 is also enclosed to fulfill this request.

Respectfully,

P. Lillellos

Larry P. Giebelhaus, Project Manager Dow Chemical Company-Michigan Operations 1261 Building Midland, MI 48667

Enclosures (2)

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UNITED STATES NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

August 7, 1997

Mr. Larry Giebelhaus Project Manager The Dow Chemical Company 1261 Building Midland, Michigan 48667

SUBJECT: REQUEST FOR APPROVAL TO BACK-FILL MIDLAND EXCAVATION

Dear Mr. Giebelhaus:

This refers to your letter of July 22, 1997. to the U.S. Nuclear Regulatory Commission, requesting approval to back-fill the excavation left at Dow's Midland site after the removal of thorium-contaminated material. After reviewing your final surveys, and NRC Region III's report of confirmatory survey and inspection dated June 4, 1997, the staff concludes that the residual thorium-contaminated soil at the Midland site has been remediated in accordance with the NRC approved decommissioning plans. Based on the Environmental Assessment for the approval of the final survey and release criteria, sent to you by letter dated July 21, 1997, and the above referenced information, further remediation at the Midland site is not required and the excavation may be closed.

Please be advised that the Midland site will remain under license until NRC form 314 (enclosed) is completed and submitted to NRC, and that the 30-day opportunity for hearing, for the license amendment approving the decommissioning criteria and final survey plan, is active until August 9, 1997. NRC will inspect the Midland site after the excavation has been filled.

If you have any questions, please contact Jack Parrott, NRC project manager for the Dow sites, at (301) 415-6700.

Sincerely,

Lawrence Bell for

John W. N. Hickey, Chief Low-Level Waste and Decommissioning Projects Branch Division of Waste Management Office of Nuclear Material Safety and Safeguards

Docket No. 040-00017 License No. STB-527 Enclosure: NRC Form-314

cc: D. Minnaar, MDEQ J. C. Dehmel, SC&A J. Basta, Dykema Gossett

- 6054

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1	NRC FORM 314 U.S. NUCLEAR REGULATORY COMMISSION	APPROVED BY	OMB: NO. 3150-0028 EXPIRES: 06/30/98			
	(6-95) 10 CFR 30.36(c)(1)(iv)	ESTIMATED BURDEN PR	R RESPONSE TO COMPLY WITH THIS MANDATORY INFORMATION COLLECTION			
	10 CFR 40.42(c)(1)(iv)	REQUEST: 30 MINUTE	S. THIS SUBMITTAL IS USED BY NRC AS PART OF THE BASIS FOR ITS			
	10 CFR 70.38(c)(1)(iv)	DETERMINATION THAT THE FACILITY HAS BEEN CLEARED OF RADIOACTIVE MATERIAL BEFORE TH Facility is released for unrestructed use. Forward comments regarding burden estimat				
	CERTIFICATE OF DISPOSITION OF MATERIALS	TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (T-6 F33), U.S. NUCLEAR REGULATOR Commission, Washington, DC 20555-0001, and to the paperwork reduction projec				
		(3150-0028), OFFICE OF	MANAGEMENT AND BUDGET, WASHINGTON, DC 20503. AN AGENCY MAY NOT A, AND A PERSON IS NOT REQUIRED TO RESPOND TO, A COLLECTION OF			
	INSTRUCTIONS: ALL ITEMS MUST BE COMPLETED PRINT OR TYPE SEND THE COMPLETED CERTIFICATE TO THE NRC OFFICE SPECIFIED ON THE REVERSE		T DISPLAYS A CURRENTLY VALID OMB CONTROL NUMBER.			
	LICENSEE NAME AND ADDRESS		ILICENSE NUMBER			
	The Dow Chemical Company Michigan Operations		STB - 527			
	1000 East Main Street		LICENSE EXPIRATION DATE			
	Midland, MI 48667		March 31, 1978 (Under Timely Renewal)			
	A. MATERIALS DATA (Check one and	l complete as ne				
	THE LICENSEE OR ANY INDIVIDUAL EXECUTING THIS CERTIFICA					
	(Check and/or complete the approp	riate item(s) belo	w.)			
	1. NO MATERIALS HAVE EVER BEEN PROCURED OR POSSESSED BY TH		ER THIS LICENSE.			
	OR					
	12. ALL ACTIVITIES AUTHORIZED BY THE LICENSE HAVE CEASED AND A	LL MATERIALS	PROCURED AND/OR POSSESSED BY THE			
	LICENSE NUMBER CITED ABOVE HAVE BEEN DISPOSED OF IN THE FO	LLOWING MAN	NER. (If additional space is needed, use the			
	•	-	And			
	portion of the material at the Bay City Site, also o Describe specific material transfer actions and, if there were radioactive	covered by the	a in terminating this license, the disposal			
. I	actions including the disposition of low-level radioactive waste, mixed v	vaste, Greater-th	an-Class-C waste, and sealed sources, if			
	applicable. The Midland Site material was excavated and t	rucked to Bay	City where it was mixed with			
	additional excavated material and shipped via rail o	ar to the Env	virocare Inc. facility in Utah.			
	For transfers, specify the date of the transfer, the name of the license r	ecipient, and the	recipient's NRC license number or Agreement			
	State name and license number.					
· • • • • •	Midland material was shipped to Envirocare Inc. Augu	ist. 1996 thro	high December, 1996. Bay City			
	shipping is still in progress. Envirocare's State of	of Útah Licens	se Number is: UT2300249			
- 1	If materials were disposed of directly by the licensee rather than transfe contractor, describe the specific disposal procedures (e.g., decay in sto		icensee, licensed disposal site of waste			
	A					
	B. OTHER DAT	A				
	X 1. OUR LICENSE HAS NOT YET EXPIRED; PLEASE TERMINATE IT.	<u> </u>				
	Please amend STB-527 to eliminate any reference to t	he Midland Si	ite.			
•	2. A RADIATION SURVEY WAS CONDUCTED BY THE LICENSEE TO CON	FIRM THE ABSEI	NCE OF LICENSED RADIOACTIVE MATERIALS			
	AND TO DETERMINE WHETHER ANY CONTAMINATION REMAINS ON	THE PREMISES	COVERED BY THE LICENSE. (Check one)			
	NO (Attach explanation)		RECEIVED			
	X YES, THE RESULTS (Check one)					
	ARE ATTACHED, or		AUG 2 2 1997			
•	X WERE FORWARDED TO NRC ON (Date) March 31, 199/	(Midland Fin	hal Survey Report) AUG 2 2 1997			
¥	3. THE PERSON TO BE CONTACTED		REGION III			
000	REGARDING THE INFORMATION Larry P. (Giebelhaus	517-636-5977			
₩ ØŎ Ŏ	PROVIDED ON THIS FORM		517-050-5577			
970820 04000017 PDR	4. MAIL ALL FUTURE CORRESPONDENCE REGARDING THIS LICENSE TO	y P. Giebelha	aus			
6-0	Dow	ChemicalMid	chigan Operations			
ພິບ		Building	27			
0285	CERTIFYING OFFIC	and, MI 4860				
~~~ <b>~</b>	I CERTIFY UNDER PENALTY OF PERJURY THAT THE		TRUE AND CORRECT			
	PRINTED NAME AND TITLE		DATE			
	Larry P. Giebelhaus	Auch	.			
000	Project Manager	v return	August 20, 1997			
	WARNING: FALSE STATEMENTS IN THIS CERTIFICATE MAY BE S	UBJECT TO CI	VIL AND/OR CRIMINAL PENALTIES. NRC			
	REGULATIONS REQUIRE THAT SUBMISSIONS TO THE NRC BE COMPLETE	E AND ACCURA	TE IN ALL MATERIAL RESPECTS. 18 U.S.C.			
	SECTION 1001 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLF	ULLY FALSE S	TATEMENT OR REPRESENTATION TO ANY			
	DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER V		PRINTED ON RECYCLED PAPER			

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