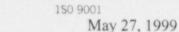
•	VOID SHEET	
TO: License Fee Manage	ement Branch	
FROM: RIII - CHARLE	ES F. GTLL	-
SUBJECT: VOIDED APPLI	CATION	
Control Number:	300250	
Applicant:	Mc Dermoit Technology Incorgo	onted
License Number:	34-03043-03	
Docket Number:	030-05693	CHID
Date Voided:	6/17/99	Calab of
Reason for Void:	Licensee requested a revision	is to the
current decommissi	oring cost estimate and finar	in )
	because request reede to be and	to, This
	Charles 7. Jill Signature	6/17/99 Date
Attachment: Official Record Copy of Voided Action		
FOR LEMB USE ONLY		
Refund Authorized a	and processed	
No Refund Due		
Fee Exempt or Fee	Not Required	

Comments:	Log completed	
	Processed by: SAC 7/1/99	5
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BE	TWEEN:	(FOR LFMS USE) INFORMATION FROM LTS
	cense Fee Management Branch, ARM and gional Licensing Sections	<pre>Program Code: 03610 Status Code: 0 Fee Category: 3L 2C 1D Exp. Date: 20060331 Fee Comments: 2C/1D EFF W/AMD 26 021799 Decom Fin Assur Regd: Y HILLING HIL</pre>
LI	CENSE FEE TRANSMITTAL	
Α.	REGION	
1.	APPLICATION ATTACHED Applicant/Licensee: MCDERMDTT TECH Received Date: 19990604 Docket No: 3005693 Control No.: 300250 License No.: 34-03043-03 Action Type: Fin. Assurance	
2.	FEE ATTACHED Amount: Check No.:	
3.	COMMENTS Signed Date	Differsey
в.	LICENSE FEE MANAGEMENT BRANCH (Check	
	Fee Category and Amount:	
2.	Correct Fee Paid. Application may Amendment Renewal License	be processed for:
3.	OTHER	
		*****
	Signed Date	
107		
	Martin Section 6 and the	



### McDermott Technology, Inc.



**Research and Development Division** 

JUN 0 4 1999

REGION 1999

300250

1562 Beeson Street Alliance Ohio 44601-2196 (330) 821-9110 FAX: (330) 823-0639

Mr. Charles F. Gill Materials Licensing Branch U.S. Nuclear Regulatory Commission Region III 801 Warrensville Road Lisle, IL 60532-4351

a McDermott company

License Number: 34-03043-03 Docket Number: 030-05693 License Number: SUB-1259 Docket Number: 040-08474

Dear Mr. Gill:

On August 18, 1993, McDermott Technology, Inc.(MTI), formerly known as Babcock & Wilcox, Inc., Research & Development Division, submitted a Decommissioning Funding Plan for the Alliance Research Center (ARC) facility located in Alliance, Ohio at 1562 Beeson Street. Please find attached our submittal of a revised cost estimate for our Decommissioning Funding Plan. This revised cost estimate is being submitted because of changes in facility conditions and expected future decommissioning procedures.

Our current comprehensive decommissioning cost estimate is \$4,827,051.00. This cost estimate was prepared by an outside engineering consultant with input from MTI personnel. The attached cost estimate has been prepared on a cost estimating table included as Appendix F of Regulatory Guide 3.66, Standard Format and Content of Financial Assurance Mechanisms Required for Decommissioning Under 10 CFR Parts 30, 40, 70, and 72. The major reasons for the significant increase in the cost estimate are as follows:

- 1. Characterization of portions of the ARC facility in preparation for remedial action.
- 2. Further examination of historical records and expansion of past process knowledge
- 3. Improved radiation measurement instrumentation.
- 4. Enhanced radiation protection program, specifically in the areas of surveillance survey methodology and technique.

An agreement between the NRC and the State of Ohio to transfer regulatory authority for MTI/USNRC licenses for byproduct and source material is anticipated to occur in July 1999. In conjunction with the transfer of this regulatory authority and upon notification by USNRC of the effective date of agreement, MTI will re-issue the decommissioning financial assurance instrument naming the State of Ohio as the beneficiary. No other provisions of the instruments will be modified at this time.

Pm; 5-27-99

### McDERMOTT TECHNOLOGY, IN

MTI is in the process of obtaining a letter of credit for the amount specified above as the financial assurance instrument that will be executed and provided to the State of Ohio. If the USNRC has any comments on this submittal that could affect the value of the cost estimate, MTI would appreciate a timely response.

If you have any questions or need any additional information, please contact me at 330-829-7878 or contact N.G Sandru, Manager, Facilities, QA & Safety, at 330-829-7331.

Sincerely,

McDERMOTT TECHNOLOGY, INC. Research & Development Division

Rohn In Mek-

Rodger W. McKain Vice President and General Manager

Attachment



\*

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#### ALLIANCE DECOMMISSIONING FUNDING PLAN - APPENDIX F SUMMARY

Manager	Rad Con	H.P.	Technicians	Clerical	Engineer	Proj Tech	Other	Totai	Total Cost
	Spec					Advisor			
62	71	158	0	110	434	80	74	987	\$383,464
								Other	\$277.940
									\$661,404
Table 3 - I	Decontami	nation/Di	smantling Rad	loactive Fa	cility Compor	ents (Work Day	(5)		
Manager	Rad Con	H.P.	Technicians	Cierical	Engineer	Proj Tech	Other	Total	Total Cost
Foreman	Spec					Advisor	· · · · ·		rom cost
98	132	555	716	0	292	.37	.24	1,854	\$593,807
								Other	\$116,682
									\$710,489
Table 4 - I	Equipment	& Suppli	les	]	I	I			Total Cost
								Other	\$515,920
Table 6 - 1	Container C	lost		1	1			I	Total Cost
								Other	\$46,080
Table 6 - 1	Transporta	tion Cost	t		T			1	Total Cost
								Other	\$80.500
Table 7 -	Burlal Cost		[ ····· ]	1				II	Total Cost
			**************************************					Other	\$865,000
Table 8 - I	Restoration	of Cont	aminated Area	24	···· T	T		1	Total Cost
Table 8 - I	Restoration	of Cont	aminated Area	25	<u> </u>	1		Other	Total Cost \$25,925
						I		Other	Total Cost \$25,925
			aminated Area					Other	· · · · · · · · · · · · · · · · · · ·
Table 9 - I Manager	Final Radia				Engineer	Proj Tech Advisor	Other	Other Total	· · · · · · · · · · · · · · · · · · ·
Table 9 - I Manager	Final Radia	tion Sun	vey (Work Day Techniclans	5)	Englineer 45		Other 30	Total	\$25.925 Total Cost
Tabla 9 - I Manager Foreman	Final Radia Rad Con Spec	tion Sun H.P.	vey (Work Day Techniclans	s) Clerical		Advisor		Total	\$25.925 Total Cost
Tabla 9 - I Manager Foreman	Final Radia Rad Con Spec	tion Sun H.P.	vey (Work Day Techniclans	s) Clerical		Advisor		Total 4,150	\$25.925 Total Cost \$1,421,227
Table 9 - I Manager Foreman 16	Final Radia Rad Con Spec 632	60n Sun H.P. 3263	vey (Work Day Techniclans	s) Clerical 0	45	Advisor		Total 4,150	\$25.925 Total Cost \$1,421,227 \$218.400
Table 9 - I Manager Foreman 16 Table 10 -	Final Radia Rad Con Spec 632 Site Stabil	tion Sun H.P. 3263 ization, I	Techniclans 151	s) Clerical 0 rveillance (	45 Work Days)	Advisor 13	30	Total 4,150 Other	\$25.925 Total Cost \$1,421.227 \$218.400 \$1,639,627
Table 9 - I Manager Foreman 16	Final Radia Rad Con Spec 632 Site Stabil Rad Con	60n Sun H.P. 3263	Techniclans	s) Clerical 0	45	Advisor		Total 4,150	\$25.925 Total Cost \$1,421,227 \$218.400
Table 9 - 1 Manager Foreman 16 Table 10 - Manager	Final Radia Rad Con Spec 632 Site Stabil Rad Con	tion Sun H.P. 3263 ization, I	Techniclans 151 Long Term Sy Techniclans	s) Clerical 0 rveillance ( Clerical	45 Work Days)	Advisor 13 Proj Tech	30	Total 4.150 Other Total 154	\$25.925 Total Cost \$1,421.227 \$218.400 \$1,639,627
Table 9 - 1 Manager Foreman 16 Table 10 - Manager Foreman	Final Radia Rad Con Spec 632 Site Stabil Rad Con Spec	tion Sun H.P. 3263 Izetion, I H.P.	Techniclans 151 Long Term Sy Techniclans	s) Clerical 0 rveillance ( Clerical	45 Work Days) Engineer	Advisor 13 Proj Tech Advisor	30 Other	Total 4.150 Other Total	\$25.925 Total Cost \$1,421.227 \$218.400 \$1,339.627 Total Cost \$61,506 \$220.600
Table 9 - 1 Manager Foreman 16 Table 10 - Manager Foreman	Final Radia Rad Con Spec 632 Site Stabil Rad Con Spec	tion Sun H.P. 3263 Izetion, I H.P.	Techniclans 151 Long Term Sy Techniclans	s) Clerical 0 rveillance ( Clerical	45 Work Days) Engineer	Advisor 13 Proj Tech Advisor	30 Other	Total 4.150 Other Total 154	\$25.925 Total Cost \$1,421,227 \$218.400 \$1,639,627 Total Cost \$61,506
Table 9 - 1 Manager Foreman 16 Table 10 - Manager Foreman 3	Final Radia Rad Con Spec 632 Site Stabia Rad Con Spec 10	tion Sun H.P. 3263 Izetion, I H.P.	Techniclans 151 Long Term Sy Techniclans	s) Clerical 0 rveillance ( Clerical	45 Work Days) Engineer	Advisor 13 Proj Tech Advisor	30 Other	Total 4.150 Other Total 154	\$25.925 Total Cost \$1,421.227 \$218.400 \$1,339.627 Total Cost \$61,506 \$220.600
Table 9 Manager Foreman 16 Table 10 Manager Foreman 3 TOTAL Manager	Final Radia Rad Con Spec 632 Site Stabia Rad Con Spec 10	tion Sun H.P. 3263 Ization, I H.P.	Techniclans 151 Long Term Sy Techniclans 68 Techniclans	s) Clerical 0 rveillance ( Clerical 0	45 Work Days) Engineer 16	Advisor 13 Proj Tech Advisor 10 Proj Tech	Other 17	Total 4,150 Other Total 154 Other Total	\$25.925 Total Cost \$1,421,227 \$218 400 \$1,839,627 Total Cost \$61,506 \$220,600 \$282,106

Other \$2,367,047
Project Total \$4,827,051

#### COST ESTIMATING TABLES

### 1. Planning and Preparation

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				Table Work Da					
	Task	Manager	Project Tech Advisor	<u>H.P.</u>	Cierical	Engineer	Other	Total	Total Cost
1,	Preparation of Documentation for Regulatory Agencies	22	27	21	10	131		211	\$95,811
2	Submittal of Decommissioning Plan to NRC when required by 10 CFR 30.36(c)(2), 40 42(c)(2), or 70.38(c)(2)*	24	30	102	25	172		353	\$135.884
		The second s					-		
3.	Development of Work Plans	14	17	34	70	105	_50	300	\$104,314
4	Procuring of Special Equipment								
5.	Staff Training								
6.	Characterization of Radiological Condition of the Facility (Including soil and tailings analysis or ground- water analysis, if								
	applicable)	2	6	70	5	26	14	123	\$47,455
7.	Other	Repr	oduction, tra	vel, softwa	are, equipm	nent, samplin	g		\$277.940
8.	Total	62	80	227		434	74	987	\$661,404

\* For assistance in preparation of cost estimate for 10 CFR Part 72, consult NRC Office of Nuclear Material Safety and Safeguards.

#### COST ESTIMATING TABLES (Continued)

#### Table 2 Unit Cost for Workers

Position	Basic Salaries (\$/yr)	Overhead Rate (%)	Worker Cost/year
Supervisor	\$ 70,720.00	20	\$ 84,864.00
Foreman	\$ 70,720.00	20	\$ 84,864.00
Craftsman	\$ 41,600.00	20	\$ 49,920.00
Technician	\$ 70,720.00	20	\$ 84,864.00
Health Physicist*	\$104,000.00	20	\$124,800.00
Laborer	\$ 41,600.00	20	\$ 49,920.00
Clerical	\$ 29,120.00	20	\$ 34,944.00
Other (Engineer)	\$ 70,720.00	20	\$ 84,864.00
* Includes Drainet A	Annara DadCan Tash UDI	Engineer DedCon Cresielist	The second second second second second second second second

\* Includes Project Manager, RadCon Tech, HP Engineer, RadCon Specialist

#### 2. Decontamination and/or Dismantling of Radioactive Facility Components\*

	No.	Dimensions		No.	Dimensions
Glove Boxes Fume Hood Hot Cells Lab Benches Sink and Drain	(m <sup>3</sup> ) Amount of Floor Space				546 (m <sup>2</sup>
	20	145 (m <sup>3</sup> )	Ventilation Ductwork Amount of Wall Space	1	7 (m <sup>3</sup>
		(m <sup>3</sup> )		8	550 (m <sup>2</sup>
		(m)	Other (roof &	3	158 (m <sup>3</sup>
	14	610 (m <sup>3</sup> )	equipment)		

	Task	Manager	Proj. Tech Advisor	<u>Table 3</u> Work Days <u>Techni-</u> <u>cians</u>	<u>H.P</u>	Engineer	Other	Total	Total <u>Cost</u>
1.	Decon/Dismantle Major Components and/or Processing and Storage Tanks	36	-	279	285	9		609	\$170,166
2.	Decon/Dismantle Laboratories, Fume Hoods, Glove Boxes, Benches, etc.	4		44	15	1		64	\$ 17,218
3.	Decon/Dismantle Waste Areas - Radwaste Areas - Scrap Recovery - Other	5	3	64	40	7			\$ 34,968

\* Indicate whether component is to be decontaminated to unrestricted release levels or packaged and disposed of at a low-level waste site. – All components will be volume reduced, packaged, and disposed as LLRW.

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### COST ESTIMATING TABLES

			_	(Continue	d)				
	Task	Manager Foreman	Project Tech Advisor	<u>Cians</u>	<u>H.P</u>	Engineer	Other	Total	Total Cost
4	Decon/Dismantle								
	Service Facilities - Maintenance Sh	18	19	118	85	140		380	\$218,717
	- Decontamination								
	- Ventilation Syste								
	- Other								
5	Decon/Dismantle Waste Treatment Facilities and Storage Areas on the Site *Including exhume and package								
	contaminated soil and tailing, if any)	13		80	55		10	100	
	- Fluoride Lagoon			00	55		12	160	\$56,594
	<ul> <li>Nitrate Lagoons</li> <li>CaF2 Waste Red</li> <li>Ground Water R</li> <li>Other</li> </ul>								
6	Monitor for compliance, reclean and remonitor, if								
	necessary	18	3	114	188	16		339	\$96,144
7.	Other (Travel, sample analysis,								
	etc.	4	12	17	19	119	12	183	\$116,682
				Table 4					
Equi	pment/Supply			Quantity				Cost	
	Samples			180		al Devices and		\$21,60	
	Samples			65		-		\$195,00	
Tank	Process System		Contract of the state of the st	1			11000 1 1000 1 1000 1 1 1 1 1 1 1 1 1 1	\$99,00	and the second second descent and the second second descent and the second se
	ns/Sewer Decon/Inspe	ct		1				\$107,00	00
	vate, Drilling Rig			1				\$47,72	0
	e Remove/Replace			1	***			\$1,500	
Deco	intamination Equipment	nt		5			antin ant est i thigt, another	\$44,10	0

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## COST ESTIMATING TABLES

### (Continued)

# 3. Packaging, Shipping, and Disposal of Radioactive Wastes

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#### Table 5

Waste Type	Volume (m <sup>3</sup> )	No. of Containers	Type of Containers	Unit Cost of Container	Cost of Container
Soils/Debris	155 7	55	B-25	\$512	\$28,160
Metals	99.1	35	B-25	\$512	\$17,920
(1999)			and the second second second second		
Total	254.8	90		ana analasi ka ka mananananana	\$46,080
		Tab	126		
Distance Shippe	d	2	.000 (miles)		
Unit cost for ship	ment	\$	1.75 (\$/mile/tru	ckload)	
Additional charge	es				
Overweig	ht		NA (\$/mile)		
Surcharg	es		NA(\$/mile)		
Waste Type	No of Shipments	Unit Cost for Shipping	Distance Shipped	Surcharge	Transportation Cost
Soils/Debris	14	\$3,500	2000	N/A	\$49,000
Metals	9	\$3,500	2000	N/A	\$31,500
Total	23			· · · · · · · · · · · · · · · · · · ·	\$80,500
		Tab	e 7		
					•
Burial Charges		\$3,003	53 (\$/m³)		
Surcharges					
Per conta	iner		NA (\$)		
Disposal			NA (\$/m <sup>3</sup> )		
Waste Type	Burial Volume (m <sup>3</sup> )	Unit Cos Buria	C,	urcharge	Burial Cost
Soils/Debris	155.65	\$3,003.	53	N/A	\$467,500
THEN I WANTED AND ADDRESS OF TAXABLE PARTY OF TAXABLE PARTY AND ADDRESS OF TAXABLE PARTY.		COO C3	53	N/A	\$297,500
Metals	99.05	\$3,003.	00		9201,000
THEN I WANTED AND ADDRESS OF TAXABLE PARTY OF TAXABLE PARTY AND ADDRESS OF TAXABLE PARTY.	(Source Matl.)	\$3,003.			\$100,000

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### COST ESTIMATING TABLES

#### (Continued)

## 4. Restoration of Contaminated Areas on Facility Ground

			Table 8			
Task	Supervisor	Foreman	НР	Clerical	Total	T
Backfill and	and the second distance in the second s			Cierical	Total	Total Cost
Restore Site						
Replace	the second se		and the second second second second second second	$(1,1,2,\dots,2) = (1,1,2,\dots,2) = $		\$5,925
Drains						
And a second						\$20,000
and the second	Contraction and the second sec	Concerned to an Article State State State				

Table D

5. Final Radiation Survey

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Task	Manager Foreman	HP	<u>Table 9</u> Work Days <u>Decon</u> <u>Technician</u>	Engineer	Other	Total	Total Ççst
Final Rad Survey	16	3895	151	45	43	4150	\$1,421,227
Other Travel, Sampling							\$218,400
Total		3895	151	45	43	4150	\$1.639.627

## 6. Site Stabilization, Long-Term Surveillance

Table 10

Task	Manager	Techni- cians	Engineer	HP	PTA	Other	Total	Total Cost
Site Stabilization	3	88	16	20	10	17	154	
Travel, Sample Analysis, Monitoring Wells								\$61,506
a series the first strength of the series of		processing of M					-	\$220,600
·P· ····	which want to the product of the Real Product	manufacture and a subscream						



UNITED STATES

REGION III 801 WARRENVILLE ROAD LISLE, ILLINOIS 60532-4351

JUN 1 8 1999

Nick G. Sandru Manager, Facilities, QA & Safety McDermott Technology Incorporated Research and Development Division 1562 Beeson Street Alliance, OH 44601-2196

Dear Mr. Sandru:

This refers to: (1) your May 27, 1999 application for a revision to your current decommissioning cost estimate, and (2) our telephone conversation on June 17, 1999. During the telephone conversation, you indicated that you were not ready to respond to the questions discussed regarding the need for additional information before a review of your request could be scheduled. At a minimum we would need the following:

- a. A full decommissioning funding plan (DFP) with a complete cost breakdown, including justifying each labor cost category.
- b. 25% contingency funding.
- c. No credit for Salvage Value.
- d. Justify not using the NUREG/CR-1754, Addendum 1 cost estimate method.

Even if the NRC had already received the above information, it might take the NRC financial assurance contractors and OGC up to two months to review the proposal. During this period of time, Ohio would have become an Agreement State. Thus Ohio would need to continue the review. The second part of the process would involve revising the letter of credit and the Standby Trust Agreement. We agreed that it would be better if the NRC voids your current request. This would allow you to present a more detailed request to Ohio.

You agreed to have the request voided and to work with Ohio (Marsha Howard) to finalize the DFP cost estimate and to revise the letter of credit amount. I told you that your requests and the voided actions would remain in your licensing file when it is transferred to Ohio. I agreed to send you a void letter with enclosures to assist you in reapplying to Ohio.

As we discussed during the telephone conversation, we have voided your request for a revision to your current decommissioning cost estimate. This action is without prejudice to resubmission to the State of Ohio.



N. Sandru

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If you have any questions or require clarification on any of the information stated above, you may contact us at (630) 829-9887.

Sincerely,

Original signed by Charles F. Gill Materials Licensing Branch

JUN 1 8 1999

License Nos. 34-03043-03 and SUB-1259 Docket Nos. 030-05693 and 040-08474

Enclosures: 1. NUREG/CR-1754 2. NUREG/CR-1754, Addendum 1

To receive a copy of this document, indicate in the box: "C" = Copy without attachment/enclosure "E" = Copy with attachment/enclosure "N" = No copy

OFFICE	DNMS/RIII	C	DNMS/RIII		T
NAME	CGIIV OF			 Contraction in the second s	
DATE	06 / 17 /99				

OFFICIAL RECORD COPY

CONVERSATION RECORD			ТІМЕ  DATE 3:00 6/17/99		
O visit	O CONFERENCE	X TELEPHONE			
	O INCOM	ING			
	X OUTGO	NG			

SUBJECT

May 27, 1999 letter requesting a revision to the current decommissioning cost estimate. License Nos. 34-03043-03, 030-05693, 300250 & SUB-1259, 040-08474, 300251.

SUMMARY

I explained to Mr. Sandru and others on the conference call, that the NRC would need additional information before a review of their request could be scheduled. At a minimum we would need the following:

- A full decommissioning funding plan (DFP) with a complete cost breakdown, including justifying a. each labor cost category.
- 25% contingency funding. b.
- No credit for Salvage Value. C.
- d. Justify not using the NUREG/CR-1754, Addendum 1 cost estimate method.

Even if the NRC had already received the above information, it might take the NRC financial assurance contractors and OGC up to two months to review the proposal. During this period of time, Ohio would have become an Agreement State. Thus Ohio would need to continue the review. The second part of the process would involve revising the letter of credit and the Standby Trust Agreement. It would be better if the NRC voids your current request. This would allow you to present a more detailed request to Ohio.

Mr. Sandru agreed to have the request voided and to work with Ohio (Marsha Howard) to finalize the DFP cost estimate and to revise the letter of credit amount. I told him that his request and the voided actions would remain in his licensing file when it is transferred to Ohio. I agreed to send a void letter with enclosures to assist him in reapplying to Ohio.

ACTION REQUIRED

Send void letter to licensee with decommissioning financial assurance guidance enclosures.

NAME OF PERSON DOCUMENTING CONVERSATION Charles F. Gill	1 Charles 7. Dill	<sup>DATE</sup> 6/17/99	
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ACTION TAKEN

Void letter sent to licensee on 6/17/99.

SIGNATURE

Charles 7. Dill

TITLE Sr. Health Physicist

6/17/99