Raytheon Company

Major Permit Modification Application Permit No. 133939

Former Raytheon Facility 430 Boston Post Road Wayland, Massachusetts

25 May 2000

ERM Ref. No. 143.51

Environmental Resources Management

399 Boylston Street, 6th Floor Boston, Massachusetts 02116



Raytheon Company

Major Permit Modification Application Permit No. 133939

Former Raytheon Facility

430 Boston Post Road

Wayland, Massachusetts

25 May 2000

John C. Drobinski, P.G., LSP

Principal-in-Charge

John W. McTigue, P.G./LSP

Project Manager

Rachel B. Chenail

Project Engineer

Environmental Resources Management

399 Boylston Street, 6th Floor Boston, Massachusetts 02116



25 May 2000 Reference: 143.51

Data Entry Section
Bureau of Waste Site Cleanup
Massachusetts Department of Environmental Protection
205 A Lowell Street
Wilmington, Massachusetts 01887

RE:

Application for Major Permit Modification-Transmittal No.

W012110

Former Raytheon Facility 430 Boston Post Road Wayland, Massachusetts Permit No. 133939

Dear Representative:

On behalf of Raytheon Company (Raytheon), Environmental Resources Management (ERM) is submitting this Application for Major Permit Modification for Permit 133939 issued for the above subject site in May 1997 (Release Tracking Nos. 3-13302, 3-13574, 3-14042, 3-19482). A modification is sought to upgrade the existing Tier IB Permit to Tier IA based on re-evaluation of the site Numerical Ranking Score (NRS) in response to results obtained during the Phase II-Comprehensive Site Assessment.

Please note that this application includes an LSP Opinion concluding that Comprehensive Response Actions (Phase II and Phase III) should continue during Department review of this application and therefore requests the Department's written approval to proceed.

If you have any questions regarding this submittal, or require additional information, please contact the undersigned at (617) 267-8377.

Sincerety,

cc:

John C. Drobinski, P.G., LSP

Principal-in-Charge

John W. McTigue, P.G., LSP

Project Manager

Ronald Slager Jr., Restoration Project Manager, Raytheon Systems Company, 1001 Boston Post Road, Marlboro, MA 01752

Environmental Resources Management

399 Boylston Street, 6th Floor Boston, Massachusetts 02116 (617) 267-8377 (617) 267-6447 (fax)

http://www.erm.com



TABLE OF CONTENTS

SECTION 1	NARRATIVE PURSUANT TO 310 CMR 40.0707(3)
SECTION 2	TIER CLASSIFICATION TRANSMITTAL FORM
SECTION 3	NUMERICAL RANKING SYSTEM SCORESHEET
SECTION 4	TRANSMITTAL FORM FOR MAJOR PERMIT MODIFICATION
SECTION 5	APPLICATION FOR MAJOR PERMIT MODIFICATION
SECTION 6	VERIFICATION OF FEE PAYMENT
FIGURES	FIGURE 1: SITE LOCUS
	FIGURE 2: SEDIMENT SAMPLING LOCATIONS
TABLES	TABLE 1: POLYCHLORINATED PIPHENYL & METALS
	TABLE 2: POLYCYLIC AROMATIC HYDROCARBONS (PAHS), EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) & VOLATILE PETROLEUM HYDROCARBONS (VPH)
APPENDICIES	
APPENDIX A	SUPPLEMENTAL INFORMATION - TIER IB PERMIT APPLICATION REVIEW
APPENDIX B	PHASE II SCOPE OF WORK & ADDENDUM NO. 1 - PHASE II SCOPE OF WORK
APPENDIX C	PHASE II SITE ASSESSMENT UPDATE
APPENDIX D	NOTICES OF DELAY

APPENDIX E RELEASE ABATEMENT MEASURE (RAM) PLAN RTN #3-13302

APPENDIX F 120-DAY RAM STATUS REPORT - RTN #3-13302

APPENDIX G CLASS A-3 RESPONSE ACTION OUTCOME - RTN #3-13302

APPENDIX H LEGAL NOTICE AND NOTIFICATION LETTERS

1.1 BACKGROUND

The subject site is an approximately 83-acre facility located at 430 Boston Post Road in Wayland, Massachusetts (Figure 1). Raytheon Company (Raytheon) operated the facility from 1955 to 1995. Operations included electronic testing and chemical process Research to support Raytheon's inhouse prototype manufacturing. Raytheon operations have been terminated, and the facility decommissioned, sold and sub-leased.

Environmental Resources Management (ERM) completed a Phase I-Initial Site Investigation (Phase I) consistent with the requirements of the Massachusetts Contingency Plan (MCP), specifically 310 CMR 40.0480. The Phase I Report dated May 1996 was submitted to the Massachusetts Department of Environmental Protection (DEP) in July 1996. Additional site assessment and release abatement was conducted in accordance with MCP requirements through December 1996 to support Tier Classification filing in January 1997. DEP issued Raytheon a Tier IB Permit for the site (Permit No. 133939), effective May 1997.

As indicated in the Phase I, potential impacts to sediment from polynuclear aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs) and metals were discovered near the former facility storm water outfall in July 1989 by the US Fish & Wildlife Service (USFWS) as part of a study of the Great Meadows National Wildlife Refuge. Subsequent sampling by ERM in May 1990 and July 1995 failed to confirm the results reported by USFWS, particularly for PCBs.

As part of the Phase II-Comprehensive Site Assessment (Phase II) verification sampling of wetland sediments was conducted in November 1998 along a series of transects. Results of the sampling effort were submitted to the Department in a letter from ERM dated 30th June 1999. Sediment sampling results indicate the presence of PCBs and metals in wetland sediments immediately adjacent to the former facility. Reevaluation of the site's Numerical Ranking Score (NRS) indicated no change in the permitted status of the site at that time (i.e., the site classification remained Tier IB).

ERM submitted an addendum to the Phase II Scope of Work (SOW) dated 20 September 1999 describing additional sediment and surface water sampling planned to further define the nature and extent of impact to wetland sediment. Two additional rounds of sampling were conducted in October and November 1999. Sampling locations are displayed on Figure 2. A summary of analytical results from the November 1998, October 1999 and November 1999 sampling rounds is included in Table 1. A preliminary evaluation of results suggest:

- The extent of impact associated with organic compounds (including EPH, PAHs and PCBs) is largely defined to an area within approximately 175 feet from the eastern bank of the wetland.
- The extent of impact associated with metals (primarily chromium and silver) requires additional analysis to define the western extent of impact in wetland sediments.

Additional characterization of the wetland habitat was conducted by qualified wildlife biologists. Activities included mapping wetland vegetation, compiling an inventory of potential site-specific environmental receptors and collecting plant tissue samples. These activities were necessary to support a Stage II Environmental Risk Characterization for the site pursuant to 310 CMR 40.0995. Preliminary results indicate:

- 1. An area of stunted vegetative growth was mapped in the southeast portion of the wetland (Figure 1). The growth density of cattails within this area was estimated at 5 stems/square meter verses an average stem density of 50-stems/square meter in the wetland outside of this area. Samples of cattail roots collected from within the area of stunted growth indicated uptake of chromium at concentrations up to 60 ppm.
- 2. Terrestrial receptors include meadow vole and muskrat (observed on site), sparrow, red-winged blackbird and Northern Harrier (an endangered raptor species observed downstream of the study area).
- One endangered plant species, River Bulrush was observed along the western edge of the wetland bordering the Sudbury River outside of the suspected area of impact.

4. The wetland is a habitat for both aquatic and terrestrial receptors, depending on the flood stage of the river. During periods of inundation, the habitat is not suitable for terrestrial receptors, but available to potential aquatic receptors.

Correlation of areas of sediment impact with the results of vegetative mapping and analysis of plant tissue suggested the potential for an Imminent Hazard (IH) Condition. Pursuant to 310 CMR 40.40.0955, Imminent Hazard Risk Characterization, (3), "The following conditions shall constitute and Imminent Hazard to the environment; a) evidence of stressed biota attributable to the disposal site." A preliminary quantitative assessment of the potential risk to human health, suggests site conditions do not pose an IH to human health or public safety. Therefore, the potential IH condition is specific to the evidence of stressed biota associated with historic releases at the site.

Pursuant to 40.0321, Raytheon and ERM verbally notified MA DEP of the potential IH condition on April 26th and agreed to conduct an Immediate Response Action (IRA) pursuant to 310 CMR 40.0412. MA DEP authorized the IRA to include continued assessment of the nature and extent of impact in the wetlands and further evaluation of potential risks to human health and the environment consistent with the existing Phase II Scope of Work. On May 4th Raytheon, ERM and Tim Boyle of MA DEP Emergency Response, Northeast Regional Office (NERO) visited the site to confirm the reported conditions and authorized actions as part of the IRA. Mr. Boyle indicated that continued assessment, as specified in the Phase II Scope of Works, was appropriate, and that remedial abatement should be considered as a Phase IV remedial response action.

Pursuant to 310 CMR 40.0530, re-evaluation of the site Numerical Ranking Score (NRS) indicates that the need to file this Major Permit Modification Application in order to upgrade the site tier classification and permit from IB to IA.

1.2 DESCRIPTION OF MODIFICATION

Pursuant to 310 CMR 40.0707, this Major Permit Modification is sought to upgrade the site classification from Tier IB to Tier IA. The modification is based on re-evaluation of the site NRS from 546 to 732. The re-scoring was conducted in response to new information obtained during

performance of the Phase II concerning the nature and extent of impact to sediment and vegetation in the wetland.

1.3 LSP TIER CLASSIFICATION OPINION

Outlined in Section H of the Application Form in Section 5 of this Application.

1.4 COMPLIANCE HISTORY

Outlined in Section E of the Application Form in Section 5 of this Application.

Note: Raytheon is no longer the operator at the site.

1.6 LSP OPINION REGARDING CONTINUATION OF COMPREHENSIVE RESPONSE ACTIONS DURING PERMIT REVIEW

IRA response actions will continue in accordance with the previous verbal approval of the Department. An IRA Plan will be submitted within the sixty-day notification period to document the IRA activities within the wetland.

In addition, ERM is currently evaluating a chlorinated solvent impact to groundwater on the upland portion of the site.

Based on the historic nature of this release and the need to complete Phase II and Phase III Comprehensive Response Actions prior to conducting remedial actions under Phase IV, ERM requests that MA DEP authorize in writing, continuation of Phase II and Phase III response actions during permit review including:

- Defining the nature and extent of impact to affected media (largely groundwater, surface water and wetland sediment);
- Quantifying the potential risks posed by site conditions to human health, safety, public welfare and the environment;
- Evaluating Remedial Alternatives and identifying the Preferred Alternative.



BWSC-107A

TIER CLASSIFICATION, TIER II EXTENSION & TIER II TRANSFER TRANSMITTAL FORM

Pursuant to 310 CMR 40.0510 and 40.0560 (Subpart E)

Release Tracking Number

3

13302

A. I	DISPOSAL SITE LOCATION:	
Disp	oosal Site Name: Former Raytheon Facility	
Stree	et: 430 Boston Post Road	Location Aid:
City/	Town: <u>Wavland</u>	ZIP Code: <u>01778-0000</u>
Rela	ated Release Tracking Numbers That This Submittal Will Address: 3-13574	, 3-14042, 3-19482
B. 1	THIS FORM IS BEING USED TO: (check all that apply)	
V	Submit a new or revised Tier Classification Submittal for a Tier I Site , include (complete Sections A, B, C, I, J, K and L).	ding a Numerical Ranking Scoresheet
	Submit a new or revised Tier Classification Submittal for a Tier II Site , included (complete Sections A, B, C, F, G, I, J, K and L).	iding a Numerical Ranking Scoresheet
	Submit a Notice that an additional Release Tracking Number(s) is (are) be required at this time (complete Sections A, B, J, K and L). If this submittal is for Transmittal Form (BWSC-109).	eing linked to this Tier Classified Site and rescoring is not or a Tier I Site, you must also submit a Minor Permit Modification
	List Additional Release Tracking Number(s):	
	Submit a Phase I Completion Statement supporting a Tier Classification	Submittal (complete Sections A, B, I, J, K and L).
	Submit a Tier II Extension Submittal for Response Actions at a Tier II Site (c	complete Sections A, B, D, F, G, I, J, K and L).
	Submit a Tier II Extension Submittal for Response Actions taken after ex (complete Sections A, B, D, F, J, K and L, and also complete Sections G and I	piration of a Walver, pursuant to 310 CMR 40.0630(4) or Section H).*
	Submit a Tier II Transfer Submittal for a change in person(s) undertaking Re (complete Sections A, B, E, F, G, I, J, K, L, M, N and O).	sponse Actions at a Tier II Site
	Submit a Tier II Transfer Submittal for a change in person(s) undertaking 310 CMR 40.0630(6) (complete Sections A, B, E, F, J, K, L, M, N and O, and a	Response Actions at a Walver Site, pursuant to also complete Sections G and I or Section H).*
	You must attach all supporting documentation re including copies of any Legal Notices and Notices to Po *NOTE: The Walver expires on the effective date of this submittal and	ublic Officials required by 310 CMR 40,1400.
	TIER CLASSIFICATION SUBMITTAL:	
	nerical Ranking Score for Disposal Site: (from Numerical Ranking Scoresheet)	
•	posed Tier Classification of Disposal Site: (check one)	Tier IB Tier IC Tier II
Cne	eck which, if any, of the Tier I inclusionary criteria are met by the Disposal Site, p	
	Groundwater is located within an Interim Wellhead Protection Area or a Z Oil or Hazardous Material at the time of Tier Classification at concentration Concentration set forth in 310 CMR 40.0360.	one II, and there is evidence of groundwater contamination by an ins equal to or exceeding the applicable RCGW-1 Reportable
	An Imminent Hazard is present at the time of Tier Classification.	
V	Check here if this Tier Classification revises a previous submittal for this Disposit this submittal. If a Tier I Permit has been issued, you may also need to su	osal Site. You must include a revised Numerical Ranking Scoresheet abmit a Major Permit Modification Application (BWSC 10).
	If incorporating additional Release(s) into the Disposal Site, list Release Track	ing Number(s): <u>3-19482</u>
D. 1	TIER II EXTENSION SUBMITTAL REQUIREMENTS:	
State	te the expiration date of the Tier II Classification or Waiver for the Disposal Site,	whichever is applicable:
	Attach a statement summarizing why a Permanent or Temporar A Tier il Extension is effective for a period of one year beyond the cu	y Solution has not been achieved at the Disposal Site. Irrent expiration date of the Tier II Classification or Waiver.
Ε.	TIER II TRANSFER SUBMITTAL REQUIREMENTS:	
Stat	te the proposed effective date of the change in person(s) undertaking Response	Actions at the Disposal Site:
All	Attach a statement summarizing the reasons for the proposed of I Response Actions must be completed by the deadline applicable to the I Disposal Site or received a W	person who first filed either a Tier Classification Submittal for the



BWSC-107A

TIER CLASSIFICATION, TIER II EXTENSION & TIER II TRANSFER TRANSMITTAL FORM

Pursuant to 310 CMR 40.0510 and 40.0560 (Subpart E)

Release Tracking Number

3

13302

F.	DISPOSAL	SITE COMPI	IANCE HISTORY	SUMMARY.
	DIGITORE		JANGE HISTORI	SUMMANI.

- > If providing either a Tier Classification Submittal for a Tier II Site or a Tier II Extension Submittal for a Walver Site, the person named in Section J must provide a Compliance History.
- > If providing a **Tier II Extension Submittal for a Tier II Site**, the person named in **Section J** must **update** their Compliance History since the effective date of the Tier II Classification.
- > If providing a Tier II Transfer Submittal for a Tier II or Walver Site, the person named in Section M must provide a Compliance History.

Compliance History for (provide only one name	per History): Raytheon i	s no longer an operator	at the site.
Check here if there has been no change to	o the Compliance History of the	person named above (Extension Submitt	al for a Tier II Site ONLY).
List all permits or licenses that have been issue	d by the Department that are rel	evant to this Disposal Site:	
PROGRAM:	PERMIT NUMBER:	PERMIT CATEGORY:	FACILITY ID:
Air Quality			
Hazardous Waste (M.G.L. c. 21C)			
Solid Waste		•	
Industrial Wastewater Management			
Water Supply		-	
Water Pollution Control/Surface Water			
Water Pollution Control/Groundwater		•	
Water Pollution Control/Sewer Connection			
Wetland & Waterways			
List all other Federal, state or local permits, lice	enses, certifications, registrations	s, variances, or approvals that are relevar	nt to this Disposal Site:
ISSUING AUTHORITY OR PROGRAM, OF	R DOCUMENTATION TYPE:	IDENTIFICATION NUMBER:	DATE ISSUED:
	y		

If needed, attach to this Transmittal Form a stathe compliance history of the person named ab		ompliance History of this Disposal Site.	i his statement must describe

(1) DEP regulations; and

(2) other laws for the protection of health, safety, public welfare and the environment administered or enforced by any other government agency.

Such a statement should identify information such as:

- (1) actions relevant to the Disposal Site taken by the Department to enforce its requirements including, but not limited to, a Notice of Noncompliance (NON), Notice of Intent to Assess Civil Administrative Penalty (PAN), Notice of Intent to Take Response Action (NORA), and an administrative enforcement order;
- (2) administrative consent orders;
- (3) judicial consent judgements;
- (4) similar administrative actions taken by other Federal, state or local agencies;
- (5) civil or criminal actions relevant to the Disposal Site brought on behalf of the DEP or other Federal, state, or local agencies; and
- (6) any additional relevant information.

For each action identified, provide the following information:

- (1) name of the issuing authority, type of action, identification number and date issued;
- (2) description of noncompliance cited;
- (3) current status of the matter; and
- (4) final disposition, if any.



BWSC-107A

TIER CLASSIFICATION, TIER II EXTENSION & TIER II TRANSFER TRANSMITTAL FORM

Pursuant to 310 CMR 40.0510 and 40.0560 (Subpart E)

Release Tracking Number

3

13302

G. CERTIFICATION OF ABILITY AND WILLINGNESS:

- > If providing either a Tier II Classification Submittal or a Tier II Extension Submittal, the person who signs this certification MUST be the person named in Section J, or that person's agent.
- > If providing a Tier II Transfer Submittal, the person who signs this certification MUST be the person named in Section M, or that person's agent.

I attest under the pains and penalties of perjury that (i) I/the person(s) or entity(ies) on whose behalf this submittal is made has/have personally examined and am/is familiar with the requirements of M.G.L. c. 21E and 310 CMR 40.0000; (ii) based upon my inquiry of the/those Licensed Site Professional(s) employed or engaged to render Professional Services for the disposal site which is the subject of this Transmittal Form and of the person(s) or entity(ies) on whose behalf this submittal is made, and my/that person's(s') or entity's(ies') understanding as to the estimated costs of necessary response actions, that/those person(s) or entity(ies) has/have the technical, financial and legal ability to proceed with response actions for such site in accordance with M.G.L. c. 21E, 310 CMR 40.0000 and other applicable requirements; and (iii) that I am fully authorized to make this attestation on behalf of the person(s) or entity(ies) legally responsible for this submittal. I/the person(s) or entity(ies) on whose behalf this submittal is made is aware of the requirements in 310 CMR 40.0172 for notifying the Department in the event that I/the person(s) or entity(ies) on whose behalf this submittal is made learn(s) that it/they is/are unable to proceed with the necessary response actions.

Ву:	(signature)	Title:	
For:	(print name of person or entity recorded in Section J or M, as appropriate)	Date:	

If you are submitting either a Tier II Extension Submittal for a Walver Site or a Tier II Transfer Submittal for a Walver Site, you may choose to sign the alternative Ability and Willingness Certification found in Section H in place of providing the certification in Section G and the LSP Opinion in Section I.

H. ALTERNATIVE CERTIFICATION OF ABILITY AND WILLINGNESS:

- > If providing a **Tier II Extension Submittal for a Walver Site**, the person who signs this certification **MUST** be the person named in **Section J**, or that person's agent
- > If providing a Tier II Transfer Submittal for a Walver Site, the person who signs this certification MUST be the person named in Section M, or that person's agent.

I attest under the pains and penalties of perjury that (i) I/the person(s) or entity(ies) on whose behalf this submittal is made has/have personally examined and am/is familiar with the requirements of M.G.L. c. 21E and 310 CMR 40.0000; (ii) based upon my inquiry of the Consultant-of-Record for the disposal site which is the subject of this Transmittal Form and of the person(s) or entity(ies) on whose behalf this submittal is made, and my/that person's(s') or entity's(ies') understanding as to the estimated costs of necessary response actions, that/those person(s) or entity(ies) has/have the technical, financial and legal ability to proceed with response actions for such site in accordance with M.G.L. c. 21E, 310 CMR 40.0000 and other applicable requirements; and (iii) that I am fully authorized to make this attestation on behalf of the person(s) or entity(ies) legally responsible for this submittal. I/the person(s) or entity(ies) on whose behalf this submittal is made is aware of the requirements in 310 CMR 40.0172 for notifying the Department in the event that I/the person(s) or entity(ies) on whose behalf this submittal is made learn(s) that it/they is/are unable to proceed with the necessary response actions.

By:	ure)	Title:	
For:(print n	name of person or entity recorded in Section J or M, as appropriate)	Date:	

I. LSP OPINION:

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and (iii) the provisions of 309 CMR 4.03(5), to the best of my knowledge, information and belief,

- > if Section B of this form indicates that a **Tier I or Tier II Classification Submittal** which relies upon a previously submitted Phase I Completion Statement is being submitted, this Tier Classification Submittal has been developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000;
- > if Section B of this form indicates that a **Phase I Completion Statement** or a **Tier I or Tier II Classification Submittal** which does not rely upon a previously submitted Phase I Completion Statement is being submitted, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) complies(y) with the identified provisions of all orders, permits, and approvals identified in this submittal;

SECTION I IS CONTINUED ON THE NEXT PAGE



Massachusetts Department of Environmental Protection

Bureau of Waste Site Cleanup

Release Tracking Number

BWSC-107A

3 - 13302

TIER CLASSIFICATION, TIER II EXTENSION & TIER II TRANSFER TRANSMITTAL FORM Pursuant to 310 CMR 40.0510 and 40.0560 (Subpart E)

I. LSP OPINION: (continued) > if Section B of this form indicates that a Tier II Extension Submittal or a Tier II Transfer Submittal is being submitted, the response action(s) that is (are) the subject of this submittal (i) is (are) being implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) complies(y) with the identified provisions of all orders, permits, and approvals identified in this submittal. I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to iy order(s), incable provisions be false, inaccurate or materially incomplete. Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by DEP or EPA. If the box is checked, you MUST attach a statement identifying the applicable provisions thereof. LSP Name: John C. Drobinski LSP #: 2196 Stamp: 617-267-8377 Ext.: 152 Signature: 5/25/00 J. PERSON/MAKING SUBMITTAL: (For Transfer Submittals describe person currently undertaking response actions, not transferee) Name of Organization: Raytheon Company Name of Contact: Ronald C. Slager, Jr. Title: Restoration Project Manager Street: 1001 Boston Post Road City/Town: Marlborough State: MA ZIP Code: 01752-0000 _____ Ext.: _____ FAX: (optional) ___ Telephone: 508-490-1770 K. RELATIONSHIP TO DISPOSAL SITE OF PERSON MAKING SUBMITTAL: (check one) RP or PRP Specify: Owner Operator Generator Transporter Other RP or PRP: Past Operator Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2) Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(i)) Any Other Person Making Submittal Specify Relationship: L. CERTIFICATION OF PERSON MAKING SUBMITTAL: I, Ronald C. Slager, Jr. , attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry , attest under the pains and penalties of perjury (i) that I have personally examined and am of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for fullfully submitting false, inaccurate, or incomplete information. Title: Restoration Project Manager For: Raytheon Company (print name of person or entity recorded in Section J) Enter address of the person providing certification(s), including Ability and Willingness Certification where applicable, if different from address recorded in Section J: Street: _ City/Town: ______ State: _____ ZIP Code: Telephone: _____ Ext.: _____ FAX: (optional) ___

YOU MUST COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE, AND YOU MAY INCUR ADDITIONAL COMPLIANCE FEES.

MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bureau of Waste Site Cleanup

NUMERICAL RANKING SYSTEM SCORESHEET

		(310 CMR	40.1511)	CSILE 1	
	ON SUBMITTAL		DISPO	SAL SITE SCORE	
Initial Submittal	Re-Classification	ппп		v vi	TOTAL
	×	_325 _1	<u>52</u> <u>12</u> 0	135	732
sposal Site Tier Classi	fication	.			
mit Category (Tier I	Only)		(A)	<u>B</u> C	п

		DISPOSAL SITE I	VEODMATION		
			WORMATION		
DEP Release racking Number(s) DEP Disposal Site	3-19482, 3 3-13302, 3-	-14042 13475	UTM Coord	N: 46928	00
Number(s)			J TW Cook	E: 030480)
sposal Site Name		theon Facilit	Y .		
sposal Site Address	430 Boston				
	City: Wayland,	MA			Zip: 01778
nt to 310 CMR 40.05	520(2)(a)1.?	ed within the boundaries of a or exceed RCGW-1 at the tire	ne of Tier Classificati	on X	No 🔲
		ent Hazard is present at the t		1 x	No
my knowledge info	mation and ballet att. 0	e personally completed this Nancluding any and all documer (ii) the applicable provisions esheet was developed in account of the personal	of 309 CMR 4.02(2)	and (3), and (iii) the profes	sional opinion and judgmen

40.1511 ((Continued)
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II. EXPOSURE PATHWAYS

	EXPOST	URE PATHWAYS			
Score	according to 40.1512 -	Exposure Pathway Designat	ion Criteria		
		DE	IGNATION		
MEDIA	NONE or NOT APPLICABLE	EVIDENCE OF CONTAMINATION	POTENTIAL EXPOSURE PATHWAY	3 d	LIKELY OR CONFIRMED SURE PATHWA
. SOIL (Includes Sediment)	0	15	(B)		150
GROUNDWATER	0	20	100		150
SURFACE WATER (Includes Wetlands)	. 0	20	100		150
. AIR		15	100		200
Ε.	ОНМ	SOURCES			
mber of OIM C	OHM	SOURCES	1 0	2 25	≥ 3 50
mber of OTM C	ittached			2 25	
mber of OHM Sources See a	ittached	SOURCES (A. + B. + C. + D. + E.)			
mber of OHM Sources See a	ittached	(A. + B. + C. + D. + E.) E.			50
В. С.	SECTION II SCORE D.	(A. + B. + C. + D. + E.) E.	0 .	TOTAL: (15	50

ATTACHMENT

II. EXPOSURE PATHWAYS

II. A Soil

OHM has been identified at concentrations greater than or equal to six inches from accessible soil surface and the area is not used for active recreation (Phase I, pg. 43).

II. B Groundwater

The site is located within a Zone II Well Head Protection Area and OHM has been identified in groundwater at concentrations greater than or equal to those listed in 310 CMR 40.0976 (Phase I, pg. 43).

II. C Surface Water

OHM likely attributable to the disposal site has been identified in concentrations greater than or equal to Ambient Water Quality Standards.

II. D Air

OHM likely attributable to the disposal site has not been identified in air and is not likely to be identified in air.

II. E Number of OHM Sources

Two sources/releases at the site:

- a) Outfall pipe at wetlands
- b) Release from solvent manhole.

Note: In the previous Tier IB Classification, WAY-02 was identified as the source of groundwater contamination, which has since been remediated. In subsequent investigations, the source of groundwater contamination has been identified as a release from a solvent manhole.

40.1511 (Continued)

III. DISPOSAL SITE CHARACTERISTICS

п.а.	OHM TOXICITY SCORE			
From Table 1	Highest OHM Toxicity Score			• "
OHM Scored: Arsenic, PCBs, and Le	ad		Toxicity So	core (1 - 80)
Concentration and Media: 160,000 ppb: 540	,000 ppb: 2,300	,000 ppb	60	
пі.в.	MULTIPLE OHMS			
More Than One OHM With an OHM Toxicity Score of ≥ 30	MULTIPLE OHMS			,
one of 2 30			No .	Yes
			0	(30)
ш.с.	M MOBILITY and PERSISTE	NCE		
Score accordi	ng to 40.1514 - OHM Mobility a	nd Persistence		
OHM Scored:	·		. Score () - 50)
	ndwater.)		50	
III.D.				
Dis	POSAL SITE HYDROGEOLO ccording to 40.1515 - Soil Perm			
DEPTH TO GROUNDWATER		SOIL PERMEABI	T PTV	
(in feet)	Low	Medium	1111	High
> 25	2	. 4		8
10.1 - 25	4	8		12
5.1 - 10	8	12		16
0 - 5	12	16		20
SEC	TION III SCORE (A + B + C +	+ D)		
A. B. C.	D.		TOTAL: (3 - 180)	
60	50 1	2	152	
Check here if Section VI has been used to amend the score for	this Section of the NRS.			

40.1511: continued

Table III.A.			OHM TOXICT	TY SCORE			
_		C	ONCENTRATION	V (soil/sediment: μg/g	; surface/groundwat	er μg/l)	•
ОНМ	s 99	100 - 999	1,000 - 9,999	10,000 - 100,000	> 100,000 NAPL < 0.5"	NAPL 0.5" - 12"	NAPL > 12"
Aliphatics C5-C8	2 S 74	15	25 25	35 25	45	7. SS	-65
C9-C12 ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	777		20	300	2 7 40 4	50	60
C19-C36	1 - 1	10 5 10	20	30 30 30 30 30 30 30 30 30 30 30 30 30 3	40	25.5.250 250	60
Arsenic	20	30	40	50	60	30 see	≥60
Aromatics C9-C10	3 3	2 15	25		457		
614C2	- 35 <u>- 3</u>	The state of the s	20 ¥25° \$	35.01.07 35.00	2457.30		65
Benzene	15	25	35	45	55	. 65	75
Bis(2-ethylhexyl)phthalate	10	20	30	40	50 · · · · · · · · · · · · · · · · · · ·	60	70
Cadmium	20	30	40	50	60		
Carbon Tetrachloride	20	30	40	50 ∼ ੌ	60	70-	- 80
Chlorobenzene	5	15	25	35	45	55	65
Chromium III	1700	10	20	30	40		
Chromium VI	10	20	- 30	40	50		
Coal Tar	10	20	30	40	50	60	70
Cyanide	5	15	25	35	45		
,1 Dichloroethane	10	20	30	40	50	60	70
1,2 Dichloroethane	10	- 20	30	40	50	60	70
Ethylbenzene	5	- 15	25	35	45	55	65 -
Ethylene Dibromide	20	30	40	50	60	70	80
2 Fuel Oil (virgin product)	5	15	25	35	45	55	65
Gasoline (virgin product)	10	20	30	40	50	60	70
æad	20	~ 30	40 -	50	60		
Mercury	20	30	40	50	60	70	80
Methylene Chloride	10	20	30	40	50	60	70
Methyl Ethyl Ketone	1	10	20	30	40	50	60
Methyl Tert Butyl Ether	5	15	25	35	45	55	65
lickel	5	15	25	35	45		

40.1511: continued

Table III.A continued	OHM TOXICITY SCORE							
		co	NCENTRATION	/ (soil/sediment: μg/g;	surface/groundwate	r μg/l)		
ОНМ	≤ 99	100 - 999	1,000 - 9,999	10,000 - 100,000	> 100,000 NAPL < 0.5"	NAPL 0.5" - 12"	NAPL > 12"	
Phenol	1 - 35	10	20	30	40	.≅. ⊤50	. 60	
PAHs	10	20	30	40	50	60	70	
PCBs	20	30	-40 ***	50	60.	70	- 80	
Tetrachloroethylene	. 10	20	30	40	50	60	. 70	
Toluene	1	10	20	30	40.	50	60	
1,1,1 Trichloroethane	5	15	25	35	45	55	65	
Trichloroethylene	15	25	35	45	255 ± 25	65	75	
Vinyl Chloride	15	25	35	45	55	65	75	
Xylenes		10	20	-30	40	- - 50 · · ·	60	
Zinc ,	1	10	20	. 30	40			

40.1511 (Continued)

Use Worksheet III.A.1. to determine the OHM Toxicity Score for OHM not listed in Table III.A.

See 40.1513 for Human Health-Based Toxicity Values for each OHM.

OHM TOXICITY SCORE								
			CONCENTRATIO	N				
		Use µg/g for Soil	and pg/l for Surface V	Vater and Groundwa	iter			
≤ 99	100 - 999	1,000 - 9,999	10,000 - 100,000	> 100,000 NAPL < 0.5"	NAPL	NAPL > 12"		
1	10	20	30	40				
5	15	25	35			60		
10	20	30	40			. 65		
15	25	35				70		
20	30					75		
	1 5 10	 ≤ 99 1 10 5 15 10 20 15 25 	Use µg/g for Soil ≤ 99	CONCENTRATION Use μg/g for Soil and μg/l for Surface V ≤ 99 100 - 999 1,000 - 9,999 10,000 - 100,000 1 10 20 30 5 15 25 35 10 20 30 40 15 25 35 45	CONCENTRATION Use µg/g for Soil and µg/l for Surface Water and Groundwa ≤ 99 100 - 999 1,000 - 9,999 10,000 - 100,000 > 100,000 NAPL < 0.5"	CONCENTRATION Use µg/g for Soil and µg/l for Surface Water and Groundwater ≤ 99 100 - 999 1,000 - 9,999 10,000 - 100,000 > 100,000 NAPL < 0.5" DAPL O.5" - 12"		

III.A.1.	OHM and Concentrations Used in Section III.A.I.							
ОНМ		Human Health-Based Toxicity Value	Concentration (Soil - µg/g)	Concentration (Water - µg/l)	OHM Toxicity Score			
	See	Table 1						
				·				
				·				
·								
	·							

					•			
	· · · · · · · · · · · · · · · · · · ·							

Table 1
Summary of OHM Toxicity Scores

	Human	Concentration	Concentration	OHM To. city
	Health-Based	(Soil-ug/g)	(Water-ug/l)	Score
ОНМ	Toxicity Value	(5011 26/ 6/	(**************************************	Score
C5-C8 Aliphatics	8	29,700	NA	35
C9-C12 Aliphatics	4	75,800	NA NA	30
C9-C10 Aromatics	18	5,390	NA NA	25
Xylenes	4	2,624	NA NA	20
C9-C18 Aliphatics	4	6,080,000	NA NA	40
C19-C36 Aliphatics	4	19,400,000	NA NA	40
C11-C22 Aromatics	18	10,600,000	NA NA	45
PAHs, Total	25	1,109,200	NA NA	50
PCBs, Total	50		NA NA	60
Aluminum	50 4	540,000	NA NA	
	40	26,000,000		40
Antimony		100,000	NA	50
Arsenic	46	160,000	NA	60
Barium	8	490,000	NA	45
Beryllium	38	1,800	NA	35
Cadmium	50	44,000	NA	50
Chromium, Total	4	37,000,000	10	40
Chromium, Hex	25	1,600,000	NA	50
Cobalt	18	14,000	NA	35
Copper	25	22,000,000	NA	50
Iron	8	73,000,000	NA	45
Lead	45	2,300,000	NA	60
Manganese	8	1,000,000	NA	45
Mercury	40	18,000	NA	50
Nickel	18	96,000	NA	35
Selenium	25	3,000	NA	40
Silver	25	560,000	NA	50
Thallium	40	11,000	NA	50
Tin	4	660,000	NA	40
Vanadium	25	330,000	NA	50
Zinc	4	1,700,000	NA	40
Benzene	30	ND	25	15
Toluene	4	ND	4.1	1
Ethylbenzene	8	ND	31	5
n-Butylbenzene	18	0.07	ND	10
sec-Butylbenzene	18	6.7	2.3	10
Isopropylbenzene	25*	7.6	8.6	10
p-Isopropylbenzene	25*	8.7	ND	10
Naphthalene	25	<i>7</i> 0	30	10
1,3,5-Trimethylbenzene	8	44	31	5
1,2,4-Trimethylbenzene	8	160	120	15

Table 1
Summary of OHM Toxicity Scores

	Human	Concentration	Concentration	OHM Toxicity
	Health-Based	(Soil-ug/g)	(Water-ug/l)	Score
OHM	Toxicity Value			
Trichlorofluoromethane	4	ND	5.8	1
Tetrachloroethene	25	NA	39	10
Trichloroethene	30	NA	560	25
1,1,1 Trichloroethane	8	NA	160	15
1,1 Dichloroethane	22	NA	1.2	10
1,1 Dichloroethene	28	NA	8.6	5
cis-1,2 Dichloroethene	18	NA	35	5.
1,2,3 Trichlorobenzene	25*	NA	130	20
Chlorobenzene	18	NA	2.1	5
1,2 Dichlorobenzene	8	NA	14	5
1,3 Dichlorobenzene	25	NA	3.4	10
1,4 Dichlorobenzene	22	NA	4	10

NOTE:

NA = Not Analyzed

ND = Not Detected

IV.A.		HUMAN	POPULATIO	N				
Residential Populati Within ½ Mile	on None		1 - 99			00 - 999	1	≥ 1,000
WILLIAM 72 WHIE	Q		5			10		15
Institutions Within 500 feet		None					or Mo	
		0					10	
On-Site Workers	None		1 - 99		1	00 - 999	Ī	≥ 1,000
•	0		5			10		15
V.B.	·	AOI	JIFERS					
ole Source Aquifer			JI LKS		T		ı —	
ame:						No C	İ	Yes
otentially Productive A	quifer					No No		25
							Medium or High	
					1	0		15)
v.c.		WATI	ER USE					·
Proximity Public Drinki	of Disposal Site to ng Water Supply Source	Not Applicable (NA)				Zone A		Zone II, IWPA, 6 SW Intake ≤ 400
		0				20		50,
Persons Served by	Public Drinking Water Supply	NA ·	25 - 999	1,000 - 4,	999	9 5,000 - 49,999		≥ 50,000
D W		0	5	10	20			25
Private Water S	Supplies Within 500 Feet	1		Commerce Industria	1 1 2 1 2 1 2		l	Drinking Food Processing
		0		10		15)		25
Viable Public Water Su	c Water Supply Available pply in Disposal Site Community unection ≤ 500 Feet from Site)	-	Yes O				No 25	
A		ECTION IV SC	ORE (A + B +	+ C)				
0.8	В.	C.			TOTAL:	(0 - 205)		
	<u>20</u> 15	1	85	1	120		11	

/13/95 (Effective 2/1/95)

40.1511 (Continued)

V. ECOLOGICAL POPULATION

V.A.	. EN	VIRONMENTAL RESOURCE	AREAS	
	RESOURCE		LOCATION	
	Area of Critical Environmental Concern	> 500' from Site	≤ 500' from Site	On-Site
. 		0	20	30
	Species of Special Concern, Threatened or Endangered Species Habitat	> 500' from Site	On-Site or ≤ 500°	
 .	Wednesd C. 15 and	0	30	
	Wetlands, Certified Vernal Pool, or Outstanding Resource Water	> 100' from Site	≤ 100' from Site	On-Site
	Fish Habitat	. 0	20	<u> </u>
	Pish rianjiat	> 500' from Site	≤ 500' from Site	On-Site
	Protected Open Space	0		30
	(Local/State/Federal/Trustee)	> 500' from Site	≤ 500° from Site	On-Site
		0	29	30
	SCORE SECTION	N V.B. <i>ONLY</i> IF SECTION V.A	SCORE IS ≥ 30.	
V.B.	ENV	IRONMENTAL TOXICITY SC	ORE	
	Hi From Table 1	ighest Environmental Toxicity Sco. V.B. or Worksheet V.B.1. on Follo	re wing Pages.	

V.B.	V.B. ENVIRONMENTAL TOXICITY SCORE							
	Highest Environmental Toxico From Table V.B. or Worksheet V.B.I. of	ity Score n Following Pages.						
OHM Scored: Mercury:			Toxicity Score (1 - 35)					
Concentration and Media: 18,0	000ppb: 540,000 ppb:in s	sediment	35					
=	SECTION V. SCORE (A.	+ B.)						
100	B35		TOTAL: (0 - 185)					
heck here if Section VI has been used	to amend the score for this Section of the NRS.							

40.1511 (Continued)

Table V.B.	ENV	TRONMENTAL TO	XICITY SCORE			
ОНМ		CONCENTRATION	(soil/sediment: µg/g; su	rface/groundwater µg/	l)	
N. Daniel	< 1	1 - 99	100 - 999	1,000 - 9,999	≥ 10,000	
Arsenic	- 5	10	15	20	25	
Benzene	0	1	5	10	15	
Bis(2-ethylherylyphthalate	5	10	15	20	25	
Cadmium ·	10	15	20	25	30	
Carbon Tetrachloride	Ð		5	10	15	
Chlorobenzene •	5	10	15	20	25	
Chromium III	1	5	10	15	20	
Chromium VI	5	10	15	20	25	
Coal Tar	5	10	15	20	25	
Cyanide	5	10	15	20	25	
Li Dichtoreethane	5	10	15	20	25	
2 Dichloroethane	0	I	. 5	10	15	
thylbenzene	- 6	1	5	10	15	
Cthylene Dibromide •	5	10	15	20	25	
2 Fuel Cit (virgin preduct) *	1	5	10	15	20	
asoline (virgin product) *	5	10	15	20	25	
ead	5	10	15	20	25	
lercury	15	20	25	30	35	
ethylene Chloride *	5	10	15	20	25	
ethyl Ethyl Ketone *	5	10	15	20		
ethyl Tert Buryl Ether *			10	1.5	25	
ckel	. 1	5	10	15	20	
iebo)	Đ		5	10	20	
AHs •	5	10	15	20	15	
JBs .	1.5	20	25	30	25	
trachloroethylene	0	1	5		35	
luene	0		5	10	15	
,1 Trichloroethane	0	1	5	10	15	
thioroethylene	0	I	5	10	15	

Table V.B. ENVIRONMENTAL TOXICITY SCORE								
ОНМ	co	NCENTRATION (s	oil/sediment: µg/g; s	urface/groundwater pg/l)			
	< 1	1 - 99	100 - 999	1,000 - 9,999	≥ 10,000			
Vinyl Chloride •	5	10	15	. 20	25			
Xylones .	5	10	15	20	2 5			
Zinc	1	5	10	15	20			

^{*} Scores derived by default methods 40.1516(2).

,0.1511 (Continued)

Use Worksheet V.B.1. to determine Environmental Toxicity Scores for OHM not listed in Table V.B.

See 40.1516 for Environmental Toxicity Values for each OHM.

Worksheet V.B.1	EN	VIRONMENTAL TO	XICITY SCORE		·	
ENVIRONMENTAL TOXICITY VALUE	CONCENTRATION Use µg/g for Soil and µg/l for Surface Water or Groundwater					
	< 1	1 - 99	100 - 999	1,000 - 9,900	≥ 10,000	
10	0	1	5	10		
20	I	5	10	10	15	
30	<			15	20	
40		10	15	20	25	
40	10	15	20	25	30	
50	15	20	25			
				30	35	

B.1.			OHM and Concentrations Used in Section V.B.1.						
	ОНМ		Environmental Toxicity Value	Concentration (Soil - µg/g)	Concentration (Water - µg/l)	Environmental Toxicity Score			
<u>.</u>		see	Table 2			<u> </u>			
	-								
					·				
-					·				

Table 2
Summary of Environmental Toxicity Scores

	Environmental	Concentration	Concentration	Environmental
OHM	Toxicity Value	(Soil-ug/g)	(Water-ug/l)	Toxocity
				Score
C5-C8 Aliphatics	30	29,700	NA	25
C9-C12 Aliphatics	30	75,800	NA	25
C9-C10 Aromatics	30	5,390	NA	25
Xylenes		2,624	NA	20
C9-C18 Aliphatics	30	6,080,000	NA	25
C19-C36 Aliphatics	30	19,400,000	NA	25
C11-C22 Aromatics	30	10,600,000	NA	25
PAHs, Total	İ	1,109,200	NA	25
PCBs, Total	50	540,000	NA	35
Aluminum	20	26,000,000	NA	20
Antimony	30	100,000	NA	25
Arsenic	30	160,000	NA	25
Barium	20	490,000	NA	20
Beryllium	30	1,800	NA	20
Cadmium	40	44,000	NA	30
Chromium, Total	20	37,000,000	10	20
Chromium, Hex	30	1,600,000	NA	25
Cobalt	20	14,000	NA	20
Copper	30	22,000,000	NA	25
Iron	20	73,000,000	NA	20
Lead	30	2,300,000	NA	25
Manganese	20	1,000,000	NA	20
Mercury	50	18,000	NA	35
Nickel	20	96,000	NA	20
Selenium	30	3,000	NA	20
Silver	40	560,000	NA	30
Thallium	30	11,000	NA	25
Tin	20	660,000	NA	20
Vanadium	20	330,000	NA	20
Zinc	20	1,700,000	NA	20
Benzene	10	ND	25	1
Toluene	10	ND	4.1	1
Ethylbenzene	10	ND	31	1
n-Butylbenzene	30	0.07	ND	5
sec-Butylbenzene	30	6.7	2.3	5
Isopropylbenzene	30	7.6	8.6	5
p-Isopropylbenzene	30	8.7	ND	5
Naphthalene	20	70	30	5
1,3,5-Trimethylbenzene	30	44	31	5
1,2,4-Trimethylbenzene	30	160	120	5

Table 2
Summary of Environmental Toxicity Scores

	Environmental	Concentration	Concentration	Environmental
OHM	Toxicity Value	(Soil-ug/g)	(Water-ug/l)	Toxocity
			\$ 4 × 5	Score
Trichlorofluoromethane	30	ND	5.8	5
Tetrachloroethene	10	NA	39	1
Trichloroethene	10	NA	560	5
1,1,1 Trichloroethane	10	NA	160	5
1,1 Dichloroethane	30	NA	1.2	5
1,1 Dichloroethene	10	NA	8.6	1
cis-1,2 Dichloroethene	10	NA	35	1
1,2,3 Trichlorobenzene	30	NA	130	15
Chlorobenzene	30	NA	2.1	5
1,2 Dichlorobenzene	10	NA	14	1
1,3 Dichlorobenzene	10	NA	3.4	1
1,4 Dichlorobenzene	10	NA	4	1

NOTE:

NA = Not Analyzed

ND = Not Detected

40.1511 (Continued)

VI. MITIGATING DISPOSAL SITE-SPECIFIC CONDITIONS

VI.	MITIGATING DISPOSAL SITE-SPECIFIC CONDITIONS	
Disposal site-specific co score more than the rele Section VI may not exce	inditions that warrant amending the site score. Changes directly related to NRS Sections or Subsection so vant subsection value assigned for the disposal site in that subsection. Section VI must reference specific ed \pm 50 Points and may be scored only in 5-point increments. Attach additional pages as necessary.	ores may not reduce the pages of the Phase I.
		•
	·	
	·	
noral Cias C	Score	
posal Site Score Amend	dment (Not to Exceed ± 50 Points)	



Instructions:

- 1. Please type or orint. A separate Transmittal Form must be completed for each permit application.
- 2. Your check should be made payable to the Commonwealth of Massachusetts. 'lease mail your check along with a copy of this form to: TEP, P.O. Box 4062, loston, MA 02211.
- 3. Three (3) copies of this form will be eeded.

For DEP US Permit No	se Only
ec'd Date	
eviewer	

4062, Boston, MA 02211

Enter Your Transmittal Number .

Your unique Transmittal Number can be accessed through DEP's web site or by calling the DEP InfoLine as listed on the last page of this document

Massachusetts Department of Environmental Protection

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1. Please type or	DEP Permit Code (BSWC01	the 7 or 8 chara	cter code	from first pag	e of permit a	pplication instructions):	
orint. A separate	Name of Permit Car	tegory:					
Transmittal Form must be completed for each	Permit For Respons		4				
permit application.	Type of Project or A Major Permit Modifi	cation and Site	Reclassific	cation			
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this form will be eeded.	Marlborough Contact:		MA	01752	· · · · · · · · · · · · · · · · · · ·	(508) 490-1770	ext.
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nd exempt applicants	D. Application; (applied by (indifferent from Section 5)						
ust mail a copy of this transmittal form to	Environmental Resou	irces Managem	ent				
DEP, P.O. Box 4062, Oston, MA 02211	Address 399 Boylston Street,	6 th Floor					
For DEP Use Only	City/Town		State	Zip Code		Telephone Number	
Permit No	Boston Contact:		MA	02116	LICDAL		×t.
ec'd Date	John C. Drobinski, P.	G.			2196	per (21E only)	
	-						
Fair Remite Pla	jeck coordin	ation					
this project subject to	MEPA review?	☐ yes ☐ r	10				
EOEA #	ect's EOEA file number Is an Environmer	er (assigned v	when an E	Environment	al Notificati	ion Form is submitted to t	he MEPA unit)
this application part of	of a larger project for t	which two or r	nore DEF	permits are	es e beina or w	∐ no vill be sought? yes	□no
st any other DEP permits	i mar apply to this proje	Ct:					
Tier 1B Permit No. 13393		January 1997	กรายการ	Harring and State		તામ પ્રત્યા તાલાકા (છે કહાી કૃષ્ણ) હ	elice(ye)briffed)
F Amount Di				and the second of the second		etrosae in receiva e para espera de la composición de la composición de la composición de la composición de la La composición de la	
pecial Provisions:		ity town or mur	nicinal have	sing outhout	Vetets		2.15
		si idavment ex	tensions a	ccording to 31	10 CMD 4 04	cy if fee is \$100 or less) 4(3)(c)]	
*There	Alternative Sche are no fee exemptions	edule Project (a	ccording to	310 CMD 4	05 and 4.10))	ERM00111
heck #:	- CASTINGUIS	Dollar Amou	nt: \$1 200	Oncant status		Date:	<u></u>

, lease make check payable to the Commonwealth of Massachusetts and mail check and one copy of this form to DEP, P.O. Box



W012110

Transmittal #

BWSC 10 - Major Permit Modification

Application for Major Permit Modification

	1	Disposal Site Information
	Che	eck here if there is more than one applicant.
1.	Cur	rent permit category:
		Initial Tier IA (Permit Category BWSC 01) Initial Tier IB (Permit Category BWSC 02) Initial Tier IC (Permit Category BWSC 03) Transition Tier IA (Permit Category BWSC 04) Transition Tier IB (Permit Category BWSC 05)
	Pe	ermit number: 133939
2.	Fo	ormer Raytheon Facility
	Dis	posal Sile Name
	43 Stre	30 Boston Post Road
		Vavland 01778
		v/Town Zip code
	Atta 40.	ach a completed, revised NRS Form and an LSP Tier Classification Opinion prepared in accordance with 310 CMR 0510(3).
	Re	evised Numerical Ranking Score:
		upgrade Tier IC to Tier IA
		upgrade Tier IC to Tier IB
	X	10
		downgrade Tier IA to Tier IB downgrade Tier IA to Tier IC
		downgrade Tier IB to Tier IC
		reclassify as Tier II
		Request modification to terms or conditions of permit:
	as a	ach an LSP Opinion as to why specific permit terms or conditions are no longer necessary or appropriate. Include reports, appropriate, detailing any new or additional information to justify the modification(s) to the permit terms or conditions being aght.
		Conduct Response Actions at a Tier I site with an RAO:
		 Implement a Permanent Solution at disposal site for which an RAO has been filed Maintain a Temporary Solution at disposal site for which an RAO has been filed
		Attach a description of those response actions which will be conducted in accordance with the Phase III and Phase IV reports and Completion Statements which are the basis for the existing RAO, as well as all response actions that are significantly different from those that are the basis for the RAO.

ERM00113



W012110

Transmittal #

BWSC 10 - Major Permit Modification

Application for Major Permit Modification

A Disposal Site Information (cont.)

Release Tracking Number See Attachment A	<u>Dat</u>	e of Notification		
f the applicant is adding new parcels to the permit, li o add to this permit. Attach a copy of each tax asses nodify their transition permit category (issued by the nformation shown below:	ssor's map(s) sho	ving these parce	els. For those applicants seeking	tn -
Municipal Tax Assessor's Map(s)	<u>Par</u>	cel Number(s)		
		•••••		

Primary Representative Inforn	nation			
Primary Representative Inform	nation			
-	nation ■ Yes	□ No		
Primary Representative: Is the Primary Representative also an applicant? Raytheon Company		□ No		
Primary Representative: Is the Primary Representative also an applicant? Raytheon Company Name of Organization Ronald C. Slager Jr.		□ No		
Primary Representative: Is the Primary Representative also an applicant? Raytheon Company Name of Organization		□ No		
Primary Representative: Is the Primary Representative also an applicant? Raytheon Company Name of Organization Ronald C. Slager Jr. Name		□ No		
Primary Representative: Is the Primary Representative also an applicant? Raytheon Company Name of Organization Ronald C. Slager Jr. Name Restoration Project Manager Title 1001 Boston Post Road Street	■ Yes	□ No	01750	
Primary Representative: Is the Primary Representative also an applicant? Raytheon Company Name of Organization Ronald C. Slager Jr. Name Restoration Project Manager Title 1001 Boston Post Road		□ No	01752 Zip code	

ERM00114

Note:
Complete this section only if there is a change in the Primary Representative or if you have not previously furnished this information to DEP.

If there is only one applicant, you do not need to complete this section.

If there is more than one applicant, then the Primary Representative should complete this page.



W012110

Transmittal #

BWSC 10 - Major Permit Modification

Application for Major Permit Modification

Note:

The Primary Representative for multiple applicants will receive the annual compliance assurance fee statement for the disposal site.

Primary Representative Information (cont.)

2. Primary Representative Certification

"I certify under the penalties of law that I am fully authorized to act on behalf of all persons submitting this permit application for the following purposes:

- to receive oral and written correspondence from DEP with respect to this application;
- to receive oral and written correspondence from DEP with respect to the performance of response actions upon issuance of a Tier I permit; and
- to receive any statement of fee required by 310 CMR 4.03(3) upon issuance of a Tier I permit."

"I am aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for wilfully submitting false, inaccurate or incomplete information."

Ronald C. Slager Jr.
Name (Print)
Restoration Project Manager
Position or title
Goneld C. Slage
Signature
25 May 2000
Date
01752
Zip code

Note:

ALL applicants must complete this section. Where there is more than one APPLICANT, make copies of this page, have each applicant provide this information, and then attach all copies to this application for Major Permit Modification.

C	Appl	icant	Inform	ation
	·			

Applicant:			
Raytheon Company			
Name of Organization Ronald C. Slager Jr.			
Applicant Name Restoration Project Manager			
Title 1001 Boston Post Road			
Street Marlborough	MA	01752	
City/Town (508) 490-1707	State	Zip code	
Telephone			and the second and the second
Contact Name (if different)	errorrorratio, e contentare e estatuta anti anti anti anti anti anti anti an		
Contact Telephone			

2. Type of applicant (check one):

individual
sole proprietorship
partnership
corporation
realty trust
state authority
municipality

	state agency
П	federal agency

_	loudial agono,	
	other, please specif	y:

3. Relationship of applicant to disposal site (check all that apply):

	ourrent owner (so defined in Postion 5/s)/4) of \$4.0.1 - 045)
	current owner (as defined in Section 5(a)(1) of M.G.L. c 21E)
	current operator (as defined in Section 5(a)(1) of M.G.L. c 21E)
	past owner (as defined in Section 5(a)(2) of M.G.L. c 21E)
	past operator (as defined in Section 5(a)(2) of M.G.L. c 21E)
	generator (as defined in Section 5(a)(3) of M.G.L. c 21E)
\Box	transporter (as defined in Section 5(a)(4) of M.G.L. c. 21F)

			(-)(-)		
other legally	responsible	party <i>(as d</i>	lefined in Se	ection 5(a)(5) of	M.G.L. c 21E

m	other percen	(as defined in .	210 CMD /	10 0006/1011
<u> </u>	Other Derzon	las utilitu III i	<i>3 I U U IVI</i> N 4	ווטו וסטטטט.טו

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W012110

Transmittal #

BWSC 10 - Major Permit Modification

Application for Major Permit Modification

D Parcel Information

Complete this section only if the current owner(s) or operator(s) information is different from that provided in the initial permit application. For applicants having received either a BWSC 04 or BWSC 05 Transition Permit and Acceptance Statement you <u>must</u> complete this section if the current owner(s) or operator(s) as defined in Section 5(a)(1) of M.G.L. c. 21E is not an applicant. Provide information about the owner(s) or operator(s) for each parcel(s) that is (are) the subject of this application. Attach additional copies of this page as necessary.

Parcel:			
Map Number: 23	_ Parcel Number: 52		
Current Owner (if different from the applica	nt):		
Christopher J. Lane			
Name			
Manager			
Position or title			
Wayland Business Center LLC, c/o C	Congress Group Ventures		
Company or organization			
1 Memorial Drive			
Street			######################################
Cambridge	MA	02142	
City/Town	State	Zip Code	
(617) 494-1111			
Telephone number			
Current Operator (If different from the owne	r):		
Name		the state of the s	
Position or title			PARTIE CHARLES TO SERVICE CONTROL CONT
Company or organization			
Street	**************************************		Man Amerika da alimba ada apara alimba
City/Town	State	Zip Code	#
Telephone number			**************************************



1. List each Tier I permit held by the applicant for other disposal sites:

W012110 Transmittal #

Release Tracking

Number(s)*

BWSC 10 - Major Permit Modification

Application for Major Permit Modification

Disposal Site Name

E Applicant's Compliance History

Each applicant must complete this section. For disposal sites with more than one APPLICANT, make copies of this section, have each applicant complete this information, and then attach all copies to this Permit Application. For applicants having a BWSC 01, BWSC 02 or BWSC 03 Permit, provide only the information which has changed since the effective date of the initial permit. For applicants having received a BWSC 04 or BWSC 05 Transition Permit and Acceptance Statement complete all of the information in this section.

BWSC Permit Number

Raytheon - Bedford, MA	83061		3-0588
Former Raytheon - Lowell, MA	P23671		3-0035
List each Tier II disposal site where the categorically to be Tier II Disposal Sites	applicant is conducting res	ponse actions (Note: Wai	vered sites are considered
Disposal Site Name		Release Tracking Numbe	<u>r(s)</u> *
Raytheon - Waltham, MA		3-0449	
Raytheon - Quincy, MA		3-0872, 3-19403	
*For those sites identified on the 1993 List) and any addendum thereto (pursul Tracking Number. List all other permits or licenses issued Program • Air Quality	ant to 310 CMR 40.0600) p by the Department and hel Permit Code	rovide the Disposal Site Note of the Algorithms of the Applicant that are Permit Category	umber in place of the Release
List) and any addendum thereto (pursul Tracking Number. List all other permits or licenses issued Program Air Quality	ant to 310 CMR 40.0600) p by the Department and hel Permit Code	rovide the Disposal Site Notes that are Permit Category	umber in place of the Release material to this disposal site:
List) and any addendum thereto (pursul Tracking Number. List all other permits or licenses issued Program	ant to 310 CMR 40.0600) p by the Department and hel Permit Code	d by the applicant that are Permit Category	umber in place of the Release material to this disposal site:
List) and any addendum thereto (pursu- Tracking Number. List all other permits or licenses issued Program Air Quality Hazardous Waste (M.G.L. c. 21C)	ant to 310 CMR 40.0600) p by the Department and hel Permit Code	d by the applicant that are Permit Category	umber in place of the Release material to this disposal site:
List) and any addendum thereto (pursu- Tracking Number. List all other permits or licenses issued Program Air Quality Hazardous Waste (M.G.L. c. 21C) Solid Waste	ant to 310 CMR 40.0600) p by the Department and hel Permit Code	d by the applicant that are Permit Category	umber in place of the Release material to this disposal site: Facility ID
List) and any addendum thereto (pursu- Tracking Number. List all other permits or licenses issued Program Air Quality Hazardous Waste (M.G.L. c. 21C) Solid Waste Industrial Wastewater Management Water Supply	ant to 310 CMR 40.0600) p by the Department and hel Permit Code	d by the applicant that are Permit Category	umber in place of the Release material to this disposal site: Facility ID
List) and any addendum thereto (pursu- Tracking Number. List all other permits or licenses issued Program Air Quality Hazardous Waste (M.G.L. c. 21C) Solid Waste Industrial Wastewater Management Water Supply Water Pollution Control:	ant to 310 CMR 40.0600) p by the Department and hel Permit Code	d by the applicant that are Permit Category	umber in place of the Release material to this disposal site: Facility ID
List) and any addendum thereto (pursul Tracking Number. List all other permits or licenses issued Program Air Quality Hazardous Waste (M.G.L. c. 21C) Solid Waste Industrial Wastewater Management Water Supply Water Pollution Control: Surface Water	ant to 310 CMR 40.0600) p by the Department and hel Permit Code	d by the applicant that are Permit Category	umber in place of the Release material to this disposal site: Facility ID



W012110 Transmittal #

BWSC 10 - Major Permit Modification

Application for Major Permit Modification

Applicant's Compliance History	y (cont.)					
List all other permits, licenses, certifications, registrations, variances, or other approvals issued by other federal, state, or loca authorities and held by applicant that are material to this disposal site:						
Issuing <u>Authority</u>	Identification Number	Date <u>Issued</u>				
Attach a statement which details the applicant's histo date of the applicant's permit, including, but not limit of health, safety, public welfare and the environment that are material to the disposal site. Such statement site taken by the Department to enforce its requireme of Intent to Assess Civil Administrative Penalty (PAN) Notice of Intent to Take Response Action (NORA); Ad trative actions taken by other states, federal, or local brought on behalf of the Department or other federal, applicant's history of compliance. For each action ide if available, and a description of the noncompliance of the sample format below.	ed to, M.G.L. c. 21E, 310 CMR administered or enforced by fe should identify information sunts including, but not limited t, administrative enforcement criministrative Consent Order; Juagencies; and/or civil or criministate, or local agencies and arentified, give the name of the is	40.0000, and other laws for the protection deral, state and local government agencies ich as: action(s) material to the disposal of Notice of Non-compliance (NON), Notice order, Notice of Responsibility (NOR), idicial Consent Judgment; similar administrations material to the disposal site my additional information relevant to the spuing authority and identification number				
Notice of Responsibility Action						
Department of Environmental Protection	9 May 2000					
Issuing Authority	Date Date					
RTN 3-19482						
ID Number						
Notice of Responsibility issued in response to the reporting and implementation of an Immediate						
Description of Non-compliance Response Action Plan due to a potential imminent hazard condition at the site.						
Response Action Fian due to a potential filling	ment hazard condition at in	e sile.				
Current Status						

(Make additional copies of this page as needed.)

Final Disposition



W012110

Transmittal #

BWSC 10 - Major Permit Modification

Application for Major Permit Modification

Applicant Certifications

Note:

Each applicant must complete this section. For disposal sites with more than one APPLICANT, make copies of this page, have each applicant complete this information, and then attach all copies to this Permit Application.

1. Certification of Submittal

"I certify under the penalties of law that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this certification, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained herein is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for wilfully submitting false, inaccurate or incomplete information."

Ronald C, Slager, Jr.

Name (Print)

Restoration Project Manager

5-24-00

2. Certification of Ability and Willingness

"I certify under the penalties of law that I have personally examined and am familiar with the requirements of M.G.L. c. 21E and 310 CMR 40.0000 and, based upon my inquiry of those Licensed Site Professionals employed or engaged to render Professional Services at the disposal site that is the subject of this permit application and my understanding as to the likely costs and necessary response actions at this site. I believe that I have the technical, financial and legal ability to proceed with response actions at this site in accordance with M.G.L. c. 21E, 310 CMR 40.0000 and other applicable requirements. I am aware of the requirements in 310 CMR 40.0172 for notifying the Department in the event that I am unable to proceed with such response actions."

Ronald C. Slager, Jr.

Name (Print)

Restoration Project Manager

Growd (1. Slag)
Signature
5-24-00



W012110 Transmittal ₽

BWSC 10 - Major Permit Modification

Application for Major Permit Modification

G Required Technical Submittals with Application for Major Permit Application

1.	Please indicate which of the following response actions (conducted pursuant to 310 CMR 40.000, the 1988 MCP, or 310 CMR
	40.0000, the 1993 MCP) are in progress or have been completed at the time of this major permit modification application.

Response Actions	<u>Completed</u>	<u>In Progress</u>
Preliminary Response Actions		
Short Term Measure		П
Interim Measure		ī
Limited Removal Action	=	ñ
Immediate Response Action (IRA)		n
Release Abatement Measure (RAM)		ī
Utility Related Abatement Measures (URAM)		ī
Phase I Initial Site Investigation		ī
Other:		
Comprehensive Response Actions		
Phase II - Comprehensive Site Assessment	П	
Phase III - Identification, Evaluation and Selection	J	
of Comprehensive Remedial Action Alternatives	П	П
Phase IV - Implementation of the Selected		_
Remedial Action Alternative (Remedy		
Implementation Plan only)	П	П

2. Please indicate which of the following Status Reports, Phase Reports, or Completion Statements have been prepared for response actions that are in progress or have been completed at the disposal site and are being relied upon to document the permit modifications being sought under this Major Permit Modification application. These reports shall be submitted as part of this Major Permit Modification application. Persons who received a Transition Permit and Acceptance Statement should check "not applicable" in the far right column since an initial Permit Application was not required.

*N/A = "Not Applicable" to persons who received a Transition Permit and Acceptance Statement since an Initial Permit application was not required.

Document	Submitted with this application	Submitted with initial application		
Short Term Measure documentation	🗆 Yes 💻 No	☐ Yes ■ No ☐ N/A*		
Interim Measure documentation	□ Yes 🔳 No	☐ Yes ■ No ☐ N/A		
Limited Removal Action documentation	🗆 Yes 🔳 No	■ Yes □ No □ N/A		
Immediate Response Action (IRA) Plan(s)	🗆 Yes 💻 No	□ Yes ■ No □ N/A		
IR Status Report(s)	🗆 Yes 💌 No	🗆 Yes 💻 No 🗀 N/A		
IRA Completion Report(s)	🗆 Yes 💻 No	■ Yes □ No □ N/A		
Release Abatement Measure (RAM) Plan(s)	Yes No	■ Yes □ No □ N/A		
RAM Status Report(s)	■ Yes □ No	☐ Yes ■ No ☐ N/A		
RAM Completion Report(s)	Yes No	☐ Yes ☐ No ☐ N/A		
Utility Related Abatement Measures (URAM)	🗆 Yes 🔳 No	🗆 Yes 🔳 No 🗔 N/A		
URAM Status Report(s)	🗆 Yes 🔳 No	🗆 Yes 🔳 No 🗀 N/A		
URAM Completion Report(s)	🗆 Yes 🔳 No	🗆 Yes 🔳 No 🗀 N/A		
Phase I Report	🗆 Yes 運 No	■ Yes □ No □ N/A		
Phase I Report Completion Statement	🗆 Yes 🖭 No	■ Yes □ No □ N/A		
Phase II Scope of Work	Yes No	🗆 Yes 🔳 No 🗔 N/A		
Phase II Report	🗆 Yes 🔳 No	□ Yes 🖪 No □ N/A		
Phase II Completion Statement	🗆 Yes 🔳 No	□ Yes ■ No □ N/A		
Remedial Action Plan	🗆 Yes 🔳 No	☐ Yes ■ No ☐ N/A		
Phase III Completion Statement	🗆 Yes 🔳 No	🗆 Yes 🔳 No 🗀 N/A		
Remedy Implementation Plan (RIP)	🗆 Yes 🛢 No	☐ Yes ■ No ☐ N/A		
Other: Phase II SOW Addendums	■ Yes □ No	☐ Yes ☐ No ☐ N/A		



W012110 Transmittal #

BWSC 10 - Major Permit Modification

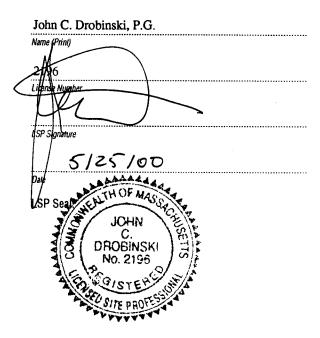
Application for Major Permit Modification

G Required Technical Submittals with Application for Major Permit Application (cont.)

- 3. Attach an LSP Opinion regarding proposed or continuing response actions which describes all response actions that, in the opinion of the LSP, should continue, or which have Department approval, during the DEP's review of this Major Permit Modification application. Use the following format:
 - Description of the response action:
 - · Current status of the response action:
 - Rationale for continuance of the response action:

Licensed Site Professional Opinion

"I attest that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this attestation, and in my professional judgment, the material facts and data that are the subject of this permit application are true and accurate and comply with the provisions of M.G.L. c. 21A, §§ 19-19J, 309 CMR, M.G.L. c. 21E, 310 CMR 40.0000, and all other laws, regulations, orders, permits, and approvals applicable to such response action(s). I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I willfully submit information which I know to be false, inaccurate or incomplete."





W012110

Transmittal #

BWSC 10 - Major Permit Modification

Application for Major Permit Modification

Application Completeness Checklist

The DEP Transmittal Form is properly completed.

Certifications/Signatures/LSP Opinions

Certification of submittal has been signed by ALL applicants and attached.
 Certification of ability and willingness has been signed by ALL applicants and attached.
 If applicable, the certification of the Primary Representative has been signed.
 A signed LSP opinion regarding the information contained in this application is included.
 If applicable, a signed LSP Opinion regarding proposed or continuing response actions pursuant to 310 CMR 40.0707(3)(e).

Reports and other submittals

Copies of all Status Reports, Phase Reports, or Completion Statements pursuant to 310 CMR 40.0703(1)(j).

☐ If applicable, a signed LSP opinion regarding requested change(s) in permit terms or conditions is included.

- If applicable, the Tier Classification Submittal has been submitted (pursuant to 310 CMR 40.0510).
- Compliance history of each applicant as described in Part E of this application has been completed by <u>ALL</u> applicants and attached.
- If applicable, description of all response actions that are significantly different from those that are the basis of the RAO is attached.

Maps, letters, and affidavits

- ☐ A copy of the tax assessor's map(s) showing each new parcel that is being added to the disposal site has (have) been attached.
- Affidavit of publication of the legal notice required by 310 CMR 40.0703(8)(a)(1), and a copy of such notice is included.
- Copy of the cover letters and notices submitted to the Chief Municipal Officer(s) and Board(s) of Health in the community(ies) in which the disposal site is located or in any other community(ies) which is, or is likely to be affected by the disposal site as required by 310 CMR 40.0703(8)(a)(2) are included.

To submit the application package:

- The Application Checklist has been completed.
- ☐ The white copy of the Transmittal Form along with the original and one copy of the Major Permit Modification Application have been sent to the "DEP Permit Administrator" in the applicable DEP Regional office. (See the back cover of the Permit Application Kit for the addresses of DEP regional offices).
- The yellow copy of the Transmittal Form and the Major Permit Modification Application Fee of \$1,200 payable to the Commonwealth of Massachusetts have been sent to:

Department of Environmental Protection P.O. Box 4062 Boston, MA 02211

ATTACHMENT A

A. 4 DISPOSAL SITE INFORMATION

Release Tracking Number	Date of Notification
3-1783	15 January 1987
ERB-N-92-1340	October 1992
3-13302	2 January 1996
3-13574	28 March 1996
3-14042	25 July 1996
3-19482	9 May 2000

15357

FPM

ERM

399 BOYLSTON STREET 6TH FLOOR BOSTON, MA 02116 PH. (617) 267-8377 CITIZENS BANK MASSACHUSETTS 5-7017-2110

_{неск рате} Мау 18, 2000

PAY

One Thousand Two Hundred and 00/100 Dollars

AMOUNT

\$1,200,00

TO

Commonwealth of Massachusetts
Department of Environmental Protection
PO Box 4062
Boston MA 02211

AUTHORIZED SIGNATURE

latter.

"O1535?" ::211070175: 1130150116"

ERM

15357

						At-A America
Invoice Number	Date	Voucher	Amount	Discounts	Previous Pay	Net Amount
		0107280	1,200.00			1,200.00
Permit Application	05/22/2000	0107280	1,200.00			1,200,00
Commonwealth of Massachusetts		Totals	1,200.00			1,200.00
4 7			1		 	