APPENDIX A

1997 RCRA Part A Application and Letter of Interim Status Authorization

Please print or type with ELITE type (12 characters per inch) in the unshaded areas only

Form Approved. OMB No. 2050-0034 Expires 10/31/2006
OMB No. 2050-0034

For EPA Regional Use Only

Date Received
Month Day Year

United States Environmental Protection Agency
Washington, DC 20460

Hazardous Waste Permit Application Part A

(Read the instructions before starting)

I. Installation's EPA ID Number (Mark 'X' in the appropriate box)

[ ] A. First Part A Submission [X] B. Part A Amendment # Four

C. Installation's EPA ID Number	D. Secondary ID Number (If applicable)
CA3890090001	

II. Name of Facility

BOEING NA INC. ETEC RMTF

III. Facility Location (Physical address not P.O. Box or Route Number)

A. Street

TOP OF WOOLSEY CANYON ROAD

Street (Continued)

City or Town	State	Zip Code
IMI HILLS	CA	91363

County Code (If known)	County Name
056	VENTURA

B. Land Type (Enter code)	C. Geographic Location: LATITUDE (Degrees, minutes, & seconds)	LONGITUDE (Degrees, minutes, & seconds)	D. Facility Existence Date: Month Day Year
P	34 13 46 N	118 42 30 W	01 11 55

IV. Facility Mailing Address

Street or P.O. Box

6633 CANOGA AVE (PO BOX 7922)

City or Town	State	Zip Code
CANOGA PARK	CA	91309-7922

V. Facility Contact (Person to be contacted regarding waste activities at facility)

Name (Last)	(First)
GAETER	MARK

Job Title	Phone Number (Area Code and Number)
DIRECTOR	818-586-3326

VI. Facility Contact Address (See instructions)

A. Contact Address [X] Same as Mailing Above [ ] B. Street or P.O. Box

City or Town	State	Zip Code

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Form Approved. OMB No. 2050-0039; Expires 09/30/99
GSA No. 0246-EPA-GE

EPA I.D. Number (Enter from page 1)

C	A	3	8	9	0	0	9	0	0	0	1

Secondary ID Number (Enter from page 1)

VII. Operator Information (See instructions)

Name of Operator

C O - O P E Q E I N G N A I N C R O C K E T D Y N E

Street or P.O. Box

6 5 3 3 C A N O G A A V E P O B O X 7 9 2 2

City or Town

C A N O G A P A R K

State: C A

ZIP Code: 9 1 3 0 9 - 7 9 2 2

Phone Number (Area Code and Number)

8 1 8 - 5 8 6 - 5 3 2 4

B. Operator Type: P

C. Change of Operator Indicator: Yes X No

Date Changed: Month 1 2 Day 0 7 Year 9 6

VIII. Facility Owner (See instructions)

A. Name of Facility's Legal Owner

U S D E P T O F E N E R G Y

Street or P.O. Box

1 3 0 1 C L A Y S T R E E T

City or Town

O A K L A N D

State: C A

ZIP Code: 9 4 6 1 2 - 5 2 0 8

Phone Number (Area Code and Number)

5 1 0 - 8 3 7 - 1 6 4 0

B. Owner Type: F

C. Change of Owner Indicator: Yes No X

Date Changed: Month Day Year

IX. SIC Codes (4-digit, in order of significance)

Primary: 8 7 3 4 (Description) Testing Laboratory

Secondary: (Description)

Secondary: 8 7 1 1 (Description) Engineering Services

Secondary: (Description)

X. Other Environmental Permits (See instructions)

A. Permit Type (Enter code)	B. Permit Number	C. Description
N	C A 0 0 0 1 3 0 9	NPDES PERMIT

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Form Approved. OMB No. 2050-0034 Expires 10-31-99
GSA-No. 0246-EPA-GI

EPA I.D. Number (Enter from page 1)

C	A	3	8	9	0	0	9	0	0	0	1

Secondary ID Number (Enter from page 1)

XI. Nature of Business (Provide a brief description)

The Energy Technology Engineering Center (ETEC) is a government-owned laboratory co-operated by the U.S. Department of Energy (DOE) and Boeing North American, Inc., Rocketdyne Division. Past activities at ETEC included energy related research and development (R&D). DOE has ended these R&D activities and is in the process of closing down the laboratory. Efforts are now focused on environmental restoration and decontamination and decommissioning of facilities that comprise the site.

XII. Process Codes and Design Capacities

A. PROCESS CODE - Enter the code from the list of process codes below that best describes each process to be used at the facility. Thirteen lines are provided for entering codes. If more lines are needed, attach a separate sheet of paper with the additional information. For "other" processes (i.e., D99, S99, T04 and X99), describe the process (including its design capacity) in the space provided in item XIII.

B. PROCESS DESIGN CAPACITY - For each code entered in column A, enter the capacity of the process.
1. AMOUNT - Enter the amount. In a case where design capacity is not applicable (such as in a closure/post-closure or enforcement action), enter the total amount of waste for that process.
2. UNIT OF MEASURE - For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

C. PROCESS TOTAL NUMBER OF UNITS - Enter the total number of units used with the corresponding process code.

PROCESS CODE	PROCESS	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
	Disposal:	
D79	Underground Injection	Gallons; Liters; Gallons Per Day; or Liters Per Day
D80	Landfill	Acre-feet or Hectare-meter
D81	Land Treatment	Acres or Hectares
D82	Ocean Disposal	Gallons Per Day or Liters Per Day
D83	Surface Impoundment	Gallons or Liters
D99	Other Storage	Any Unit of Measure Listed Below
	Storage:	
S01	Container (Barrel, Drum, Etc.)	Gallons or Liters
S02	Tank	Gallons or Liters
S03	Waste Pile	Cubic Yards or Cubic Meters
S04	Surface Impoundment	Gallons or Liters
S05	Drip Pad	Gallons or Liters
S06	Containment Building	Cubic Yards or Cubic Meters
S99	Other Disposal	Any Unit of Measure Listed Below
	Treatment:	
T01	Tank	Gallons Per Day or Liters Per Day
T02	Surface Impoundment	Gallons Per Day or Liters Per Day
T03	Incinerator	Short Tons Per Hour; Metric Tons Per Hour; Gallons Per Hour; Liters Per Hour; or Btu's Per Hour
T04	Other Treatment	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; or Btu's Per Hour
T80	Boiler	Gallons or Liters
T81	Cement Kiln	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; or Btu's Per Hour
T82	Lime Kiln	
T83	Aggregate Kiln	
T84	Phosphate Kiln	
T85	Coke Oven	
T86	Blast Furnace	
T87	Smelting, Melting, Or Refining Furnace	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; or Btu's Per Hour
T88	Titanium Dioxide Chloride Process Oxidation Reactor	
T89	Methane Reforming Furnace	
T90	Pulping Liquor Recovery Furnace	
T91	Combustion Device Used In The Recovery Of Sulfur Values From Spent Sulfuric Acid	
T92	Halogen Acid Furnaces	
T93	Other Industrial Furnaces Listed In 40 CFR §260.10	
T94	Containment Building	Cubic Yards or Cubic Meters
	Miscellaneous (Subpart X):	
X01	Open Burning/Open Detonation	Any Unit of Measure Listed Below
X02	Mechanical Processing	Short Tons Per Hour; Metric Tons Per Hour; Short Tons Per Day; Metric Tons Per Day; Pounds Per Hour; or Kilograms Per Hour
X03	Thermal Unit	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; or Btu's Per Hour
X04	Geologic Repository	Cubic Yards or Cubic Meters
X99	Other Subpart X	Any Unit of Measure Listed Below

UNIT OF MEASURE	UNIT OF MEASURE CODE
Gallons	G
Gallons Per Hour	E
Gallons Per Day	U
Liters	L
Liters Per Hour	H
Liters Per Day	V

UNIT OF MEASURE	UNIT OF MEASURE CODE
Short Tons Per Hour	D
Metric Tons Per Hour	W
Short Tons Per Day	N
Metric Tons Per Day	S
Pounds Per Hour	J
Kilograms Per Hour	R

UNIT OF MEASURE	UNIT OF MEASURE CODE
Cubic Yards	Y
Cubic Meters	C
Acres	B
Acre-feet	A
Hectares	Q
Hectare-meter	F
Btu's Per Hour	I

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EPA No. 0246-EPA-GT

EPA I.D. Number (Enter from page 1): C A 3 8 9 0 0 9 0 6 0 1

Secondary ID Number (Enter from page 1):

XII. Process Codes and Design Capabilities (Continued)

EXAMPLE FOR COMPLETING ITEM XII (shown in line number X-1 below): A facility has a storage tank which can hold 533,788 gallons.

Line Number	A. Process Code (From list above)	B. PROCESS DESIGN CAPACITY 1. Amount (Specify)	B. 2. Unit Of Measure (Enter code)	C. Process Total Number Of Units	For Official Use Only
X-1	S02	533,788	G	001	
1	S01	.200	Y	200	
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					

NOTE: If you need to list more than 13 process codes, attach an additional sheet(s) with the information in the same format as above. Number the lines sequentially, taking into account any lines that will be used for "other" processes (i.e., D99, S99, T04 and X99) in Item XIII.

XIII. Other Processes (Follow instructions from Item XII for D99, S99, T04 and X99 process codes)

Line Number (Enter #'s in sequence with Item XII)	A. Process Code (From list above)	B. PROCESS DESIGN CAPACITY 1. Amount (Specify)	B. 2. Unit Of Measure (Enter code)	C. Process Total Number Of Units	D. Description Of Process
X-1	T04				In-situ Vitrification
1	T01	5	T	001	Treatment involves neutralization followed by stabilization
2	T01	55	T	003	Treatment involves stabilization
3					
4					

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GSA No. 0248-EPA-OT

EPA I.D. Number *(Enter from page 1)*: C A 3 8 9 0 0 9 0 0 0 1

Secondary ID Number *(Enter from page 1)*:

XIV. Description of Hazardous Wastes

A. EPA HAZARDOUS WASTE NUMBER - *Enter the four-digit number from 40 CFR, Part 261 Subpart D of each listed hazardous waste you will handle. For hazardous wastes which are not listed in 40 CFR, Part 261 Subpart D, enter the four-digit number(s) from 40 CFR, Part 261 Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.*

B. ESTIMATED ANNUAL QUANTITY - *For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.*

C. UNIT OF MEASURE - *For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:*

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item XII A. on page 3 to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous waste: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item XII A. on page 3 to indicate all the processes that will be used to store, treat, and/ or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

NOTE: THREE SPACES ARE PROVIDED FOR ENTERING PROCESS CODES. IF MORE ARE NEEDED:

1. *Enter the first two as described above.*
2. *Enter "000" in the extreme right box of Item XIV-D(1).*
3. *Enter in the space provided on page 7, Item XIV-E, the line number and the additional code(s).*

2. PROCESS DESCRIPTION: *If a code is not listed for a process that will be used, describe the process in the space provided on the form (D.(2)).*

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER - Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. *Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B, C and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.*
2. *In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.*
3. *Repeat step 2 for each EPA Hazardous Waste Number that can be used to describe the hazardous waste.*

EXAMPLE FOR COMPLETING ITEM XIV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

Line Number	A. EPA HAZARD WASTE NO. (Enter Code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (Enter code)	D. PROCESS (1) PROCESS CODES (Enter)	D. PROCESS (2) PROCESS DESCRIPTION (If a code is not entered in D(1))
X 1	K 0 5 4	900	P	T 0 3 D 8 0	
X 2	D 0 0 2	400	P	T 0 3 D 8 0	
X 3	D 0 0 1	100	P	T 0 3 D 8 0	
X 4	D 0 0 2				Included With Above

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GSA No. 0246-EPA-GE

EPA I.D. Number (Enter from page 1)

C	A	3	8	9	0	0	9	0	0	0	1

Secondary ID Number (Enter from page 1)

XIV. Description of Hazardous Wastes (Continued)

Line Number	A. EPA Hazardous Waste No. (Enter code)	B. Estimated Annual Quantity of Waste	C. Unit of Measure (Enter code)	D. PROCESSES (1) PROCESS CODES (Enter code)	D. PROCESSES (2) PROCESS DESCRIPTION (If a code is not entered in D(1))
1	D008	4500	P	S01 T04	Sec. XIII, line 2
2	D007	2050	P	S01 T04	Sec. XIII, line 2
3	D001	1000	P	S01	
4	D002				Included with above
5	D009				" "
6	F003				" "
7	F005				" "
8	D009	1500	P	S01 T04	Sec. XIII, line 2
9	D002	50	P	S01 T04	Sec. XIII, line 1
10	D004				Included with above
11	D006				" "
12	D007				" "
13	D002	50	P	S01 T04	Sec. XIII, line 1
14	D002	50	P	S01 T04	Sec. XIII, line 1
15	D006				Included with above
16	D007				" "
17	F002	2000	P	S01	
18	NONE	5000	P	S01 T04	Sec. XIII, lines 1 and 2
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					

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Form Approved. OMB No. 2050-0034 Expires 10/31/98
OMB No. 2050-0034

EPA I.D. Number (Enter from page 1)	Secondary ID Number (Enter from page 1)
C A 3 8 9 0 0 9 0 0 0 1	

XV. Map

Attach to this application a topographic map, or other equivalent map, of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in this map area. See instructions for precise requirements.

XVI. Facility Drawing

All existing facilities must include a scale drawing of the facility (See instructions for more detail).

XVII. Photographs

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more detail).

XVIII. Certification(s)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Owner Signature — Date Signed

Name and Official Title (Type or print)
James T. Davis, Associate Manager, Oakland Operations Office, U. S. DOE

Owner Signature — Date Signed 9/24/97

Name and Official Title (Type or print)

Operator Signature — Date Signed 10/13/97 9/23/97 MC

Name and Official Title (Type or print)
Mark Gaither, Director, EnD Program Manager

Operator Signature — Date Signed 9/24/97

Name and Official Title (Type or print)
James T. Davis, Associate Manager, Oakland Operations Office, U. S. DOE

XIX. Comments

DOE Oakland Operations Office signs this application as the owner and co-operator of EBEC RMFF. A statement of joint operation of the Radioactive Materials Handling Facility and a waste description addendum pages are attached as part of this application.

Note: Mail completed form to the appropriate EPA Regional or State Office. (Refer to instructions for more information).

Addendum. Description of hazardous wastes by STP code and treatment process - EPA Form 8700-23, 6 line number.

Line Number	EIEC STP Code	California Waste No.	Waste Description	Treatment Process Description
1	W002	1 8 1	TRU contaminated lead blocks	None: Storage pending planned disposal at WIPP
1	W009	1 8 1	Paint chips	None
1	W018	1 8 1	HEPA filter elements	None
1	W028	1 8 1	Lead glass/lead	None
1	W035	1 8 1	Evaporator sludge	Stabilize using concrete-like product to meet nonwastewater treatment standard
2	W019	1 8 1	Chromic Salt Cakes	Crush then stabilize using concrete-like product to meet nonwastewater treat. stn.
2	W039	1 8 1	Neutralized acid cleaner	Solidify using concrete-like product to meet nonwastewater treatment standard
3	W020	7 9 2	Laboratory Analytical Reagent Waste	None
4				
5				
6				
7				
8	W021	1 8 1	MTRU Drain line debris	None: Storage pending planned disposal at WIPP
8	W026	1 8 1	Crushed mercury light bulbs	Stabilize using concrete-like product to meet nonwastewater treatment standard
8	W032	1 8 1	Mercury and sediment	Amalgamation to meet treatment standard
9	W029	7 9 2	Corrosive cleaning liquid	Neutralize then stabilize using concrete-like product to meet wastewater and 40 CFR 268.49 Underlying Hazardous Constituent treatment standards
10				
11				
12				
13	W033	7 9 1	Radiological lab standards	Neutralize then stabilize using concrete-like product to meet wastewater and 40 CFR 268.49 Underlying Hazardous Constituent treatment standards
14	W031	7 9 2	Acidic aqueous liquid	Neutralize then stabilize using concrete-like product to meet wastewater and 40 CFR 268.49 Underlying Hazardous Constituent treatment standards
15				
16				
17	W034	3 5 1	MTRU Solidified oil	None: Storage pending planned disposal at WIPP
8	NONE	2 2 1	Oil	Solidification using concrete-like product
8	NONE	1 8 1	Asbestos containing material	None
8	NONE	1 9 1	Carbonate/hydroxide salts	Neutralize then solidify
9				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				

RADIOACTIVE MATERIALS HANDLING FACILITY (RMHF) PART A (ATTACHMENT)

STATEMENT OF JOINT OPERATION FOR THE RADIOACTIVE MATERIALS HANDLING FACILITY (RMHF) AT THE ENERGY TECHNOLOGY ENGINEERING CENTER

The Department of Energy (Department) and its operating contractor, Boeing North American (BNA) Incorporated, have jointly signed this application as the operator of the permitted facility. The Department has determined that dual signatures best reflect the actual apportionment of responsibility under which the Department's RCRA responsibilities are for policy, programming, funding, and scheduling decisions, as well as general overview, and the contractor's RCRA responsibilities are for day-to-day operations, including, but not limited to, the following responsibilities: waste analyses and handling, monitoring, record-keeping, reporting, and contingency planning. For purposes of the certification required by 22 CCR 66270.11(d), the Department's and Boeing North American's representatives certify, to the best of their knowledge and belief, the truth, accuracy and completeness of the application for their respective areas of responsibility.

M. Gabler
General Manager
Energy Technology Engineering Center
Boeing North American, Inc.
Facility Co-Operator

James T. Davis
Associate Manager
for Environmental
Management
Oakland Operations Office
Facility Owner/Co-Operator

DEC 11 1997

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DEC 15 1997

DRF 0496

Cal/EPA

Department of Toxic Substances Control

400 P Street, 4th Floor
P.O. Box 806
Sacramento, CA 95812-0806

Pete Wilson
Governor

Peter M. Rooney
Secretary for Environmental Protection

Mr. James T. Davis,
Associate Manager
for Environmental Management
Oakland Operations Office
U.S. Department of Energy
1301 Clay Street
Oakland, CA 94612-5208

Mr. Mark Gabler,
Director
Energy Technology Engineering Center
Boeing North American, Inc.
6633 Canoga Ave
P.O. Box 7922
Canoga Park, CA 91309-7922

Dear Mr. Davis and Mr. Gabler:

INTERIM STATUS AUTHORIZATION FOR THE OPERATION OF MIXED WASTE STORAGE AND TREATMENT FACILITIES AT THE ENERGY TECHNOLOGY ENGINEERING CENTER (ETEC), CA3 890 090 001.

The Department of Toxic Substances Control (DTSC) has received your letter of October 24, 1997 submitting a revised RCRA State Part A application and Closure Plan for the Boeing North American Corp-Energy Technology Engineering Center's Radioactive Materials Handling Facility (RMHF) facility in the Simi Hills. Our review of the October 24, 1997 Part A application has determined it to adequately describe the storage and treatment activities involving mixed wastes at ETEC.

The Interim Status authority for the RMHF first went into force with the March 22, 1989 Part A submittal to US Environmental Protection Agency. This letter is clarify the requirements and limitations conferred by Interim Status. The RMHF is limited to only storing and treating mixed wastes. Decontamination and waste packaging occurs in Building 4021 (aka B-021, or T021). All treatment shall be limited to this

building. A storage vault with significant shielding is located in Bldg. 4022 (aka B-022, or T022), and a capacity of up to 3,500 lbs of solids and liquids. Additional storage is located in Bldg 4621 (aka B-621, or T4621) and its accompanying yard.

It has been determined that both Boeing North American, Inc. as operator, and the US DOE as owner have complied with the administrative requirements for filing for interim status, as defined in the Health and Safety Code section 25200.5 and regulation under section 66270.70. Both parties shall comply with the regulations specified in Chapter 15, Division 4.5, Title 22, California Code of Regulation until the final permit decision or the facility closure is completed.

If you have any questions regarding this letter you may contact Paula Batarseh at (510) 540-3969.

Sincerely,

James M. Pappas

James M. Pappas, P.E., Chief
Northern California
Permitting Branch

cc:
Brian Sujata
Rocketdyne/Energy Technology Engineering Center
Boeing North American, Inc.
6633 Canoga Ave
P.O. Box 7922
Canoga Park, CA 91309-7922

Kevin Hartnett
Oakland Operations Office
U.S. Department of Energy
1301 Clay Street
Oakland, CA 94612-5208

Charlene Williams
DTSC- Statewide Compliance
700 Heinz Avenue
Berkeley, CA 94710

Jose Kou
DTSC
1011 N. Grandview Avenue
Glendale, CA 91201