DEPARTMENT OF THE AIR FORCE

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CANNON AIR FORCE BASE NEW MEXICO

JUL 1999
RECEIVED

18 JUL 1999

Colonel Loyd S. Utterback
Commander
100 S DL Ingram Blvd Suite 100
Cannon AFB NM 88103-5214

Mr. James Bearzi
Chief, Hazardous and Radioactive Waste Bureau
State of New Mexico Environment Department
Hazardous and Radioactive Materials Bureau
P O Box 26110
Santa Fe NM 87504-0968

Dear Mr. Bearzi

Please find enclosed the Part A permit application and attachments to initiate the Part B Operating Permit renewal. Cannon AFB is the permit owner and Defense Reutilization and Marketing Office operates the hazardous waste storage facility, permit number NM7572124454-1, issued October 16, 1989.

We look forward to working closely with your staff concerning this permit renewal. My staff will also submit requests to remove Solid Waste Management Units and Area of Concerns from the Hazardous and Solid Waste Management Act (HSWA) module of the permit.

Should you or your staff have any questions, please contact Mr. John Pike at (505) 784-1092 or Mrs. Vera Wood at (505) 784-1097.

Sincerely

LOYD S. UTTERBACK, Colonel, USAF

Attachments:
1. Revised Part A Application (EPA Form 8700-12)
2. Revised Part B narratives
3. CD ROM

cc:
NMED HRMB (R. S. ("Stu") Dinwiddie)
NMED HRMB (S. Pullen)
HQ ACC/CEVQM
27 FW/JA
27 FW/SEG
27 ADOS/SGPB
DRMO-Cannon (N. Chapman)
DRMS-LPH (R. Scherer)

CHECKLISTS FOR:

LIBRARY COPY

CANNON AIR FORCE BASE
RCRA PERMIT APPLICATION – PART B

Intended to supersede original permit no. NM7572124454, dated 16 October 1989

Prepared for

New Mexico Environment Department
Hazardous and Radioactive Materials Bureau

July 1999

DRMS - A Unique and Vital Mission

The Defense Reutilization and Marketing Service disposes of excess property received from the military services. The inventory changes daily and includes a variety of items: from air conditioners to automobiles, tents to typewriters, computers to couches, and more.

To accomplish this mission, property is first offered for reutilization within the Department of Defense (DoD), transferred to other federal agencies, or donated to state and local governments and other qualified organizations.

In fiscal 1997, more than $3.8 billion worth of property was reutilized, transferred or donated. DRMS also supports the State Department's Humanitarian Assistance Program and Foreign Military Sales Program.

Property that is not reutilized, transferred or donated is sold to the public as surplus. DRMS manages the DoD Surplus Property Sales Program. Surplus property is sold to the general public through international, regional and retail sales.

Using state-of-the-art communications systems, DRMS provides customers with information on availability of property, product descriptions and much more. The Internet and other electronic media gives customers the opportunity to electronically screen property, request property for reutilization, transfer or donation and bid and purchase property on-line.

New Customer Call Center

1-888-352-9333

For information on any DRMS program, contact our Customer Call Center. Representatives are available to answer your questions from 7 a.m. to 5 p.m. Eastern Time, Monday through Friday, excep. federal holidays. Those calling during other hours can leave a recorded message. You can also fax your questions: (616) 961-4201.

Technology - The information superhighway

DRMS offers customers the opportunity to surf the net. As part of the Internet's Worldwide Web, DRMS displays its reutilization, transfer and donation assets. Users can also find information on retail, zone and national sales including sales schedules and catalogs. The DRMS Web address is: http://www.drms.dla.mil.

Reutilization - Saving money for the government

Reutilization is an excellent source of supply for both mission-essential and support items. Almost any major item or repair part can be found at a DRMO at one time or another and it's free to DoD activities. Property that does not meet DoD customer requirements is made available to other federal government agencies through transfer actions -- again saving taxpayers the cost of procuring new property. After the property passes through the reutilization and transfer cycles, DRMS makes property available to state and local governments and qualified nonprofit agencies.

Sales - Returning money to the government

Property not reutilized, transferred or donated is sold to the public through international/national sales, zone sales and retail sales.

International/national sales are generally for large quantities of higher-value property including electronics, aircraft parts and ships. This program is managed by our National Sales Office, the method of sale usually sealed bid.

environmental controls. Buyers must demonstrate and certify that they are environmentally responsible. Through on-site inspections and checks with regulatory agencies, DRMS ensures buyers are knowledgeable in the use, transportation and storage of hazardous property, and have a use for what they buy.

The sale of hazardous property to responsible buyers produces revenue, while contributing to achieving the nation's hazardous waste minimization and resource conservation goals.

DRMS - An era of change

In 1993 DRMS was designated DLAs privatization candidate. With the approval of DLA and Deputy Secretary of Defense, DRMS has adopted the Enterprise Management design model as its method of reaching privatization goals.

Enterprise Management is a public-sector model that uses private-sector funding and management approaches to maximize government accountability by giving customers a choice in service providers. The design selectively introduces the private sector into DRMS activities where mature commercial markets exist. For instance, a private firm might be offered a contract to sell a commodity, like aircraft parts.

When it makes good business sense, portions of DRMS might be privatized through service contracts, public/private partnerships and other business arrangements.

This strategy is expected to significantly improve DRMS performance. Product lines and processes will be targeted for outsourcing to the private sector. Accountability for the disposal of surplus property will be strengthened. And, through Enterprise Management, private firms will be allowed to compete for surplus property sales or other services currently exclusively offered by DRMS to DoD customers.

To make Enterprise Management work, DRMS is realigning its current functions into two new business units. The marketplace unit will allow customers to choose between several providers, both public and private, for the same service. Many of these services can be provided by private industry; for example, the current use of commercial contractors to disposal of hazardous property. The utility business unit will include services that have traditionally been associated with the government, such as demilitrizating weapons prior to sale as scrap. Though many of these utility functions will remain within the government, some may be offered to private firms if government oversight can be clearly established.

DRMS will continue to focus on innovative and effective ways to maximize the return to the taxpayer for every dollar spent supporting the American warfighter.

Updated: October 1998

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What is DLA?

The Defense Logistics Agency is a logistics combat support agency whose primary role is to provide supplies and services to America's military forces worldwide. Our 40,600 (as of Feb. 2000) skilled and dedicated civilian and military staff work around the clock, in all 50 states, about 27 countries, at over 500 sites located close to, and partnered with, our customers and suppliers.

DLA's mission includes managing over four million consumable items, processing more than 30 million annual distribution actions and administering over $900 billion of DoD and other agency contracts.

Our responsibilities have grown to the point that today, if our forces fight with it, wear it, eat it, burn it as fuel or otherwise use it, DLA probably provides it, arranges for its reutilization after the consumer no longer needs it or has managed the contract to obtain it. Ours is a responsibility we take seriously and execute proudly.

DLA must continue helping our customers maintain readiness at reduced cost and sustain current and future deployed operations. That is our challenge, and that is what we will do.

DLA is comprised of two major subordinate commands. The Defense Contract Management Command and the Defense Logistics Support Command.

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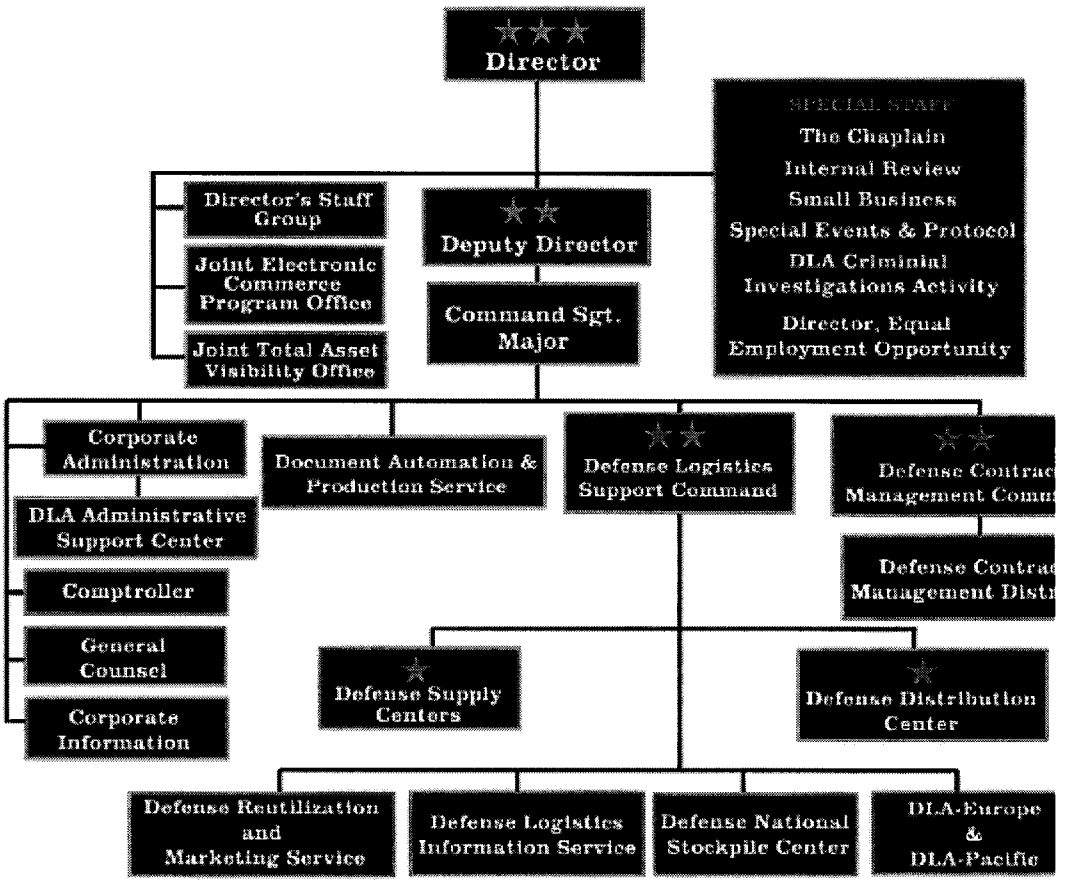
Defense Logistics Agency



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- Rear. Adm. Raymond Archer

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- Command Sgt. Major Archie Turner

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- DLA Criminal Investigations Activity

- Director's Staff Group

Small Business Sites:

- Headquarters Small Business Office homepage
- DOD Office of Small and Disadvantaged Business Utilization

FAXBACK 12952
9472.1987(01)

OPERATOR AT GOVERNMENT-OWNED CONTRACTOR-OPERATED (GOCO) FACILITIES

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

JUN 24 1987

MEMORANDUM

SUBJECT: Determination of Operator at Government-Owned Contractor-Operated (GOCO) Facilities

FROM: Gene A. Lucero, Director
Office of Waste Programs Enforcement

Marcia E. Williams, Director
Office of Solid Waste

TO: Waste Management Division Directors
Regions I - X

The purpose of this memorandum is to clarify who should sign as the operator on permit applications for Government-Owned Contractor-Operated (GOCO) facilities. Earlier guidance (see attached memo) had recommended that the Regional office consider the role of the contractor in the operation of the facility before determining who should sign the permit application. We also noted that in some cases where the contractor's role is less precisely defined the Region should exercise judgement given the factual situation.

It appears that there is still some confusion regarding signatories for permit applications. Whenever a contractor or contractors at a government-owned facility, are responsible or

partially responsible for the operation, management or oversight of hazardous waste activities at the facility; they should sign the permit as the operator(s). In some instances both the Federal agency and the contractor(s) are the operators and multiple signatures to that effect would be appropriate. A review of the facility's operating records, contingency plans, personnel training records, and other documents relating to waste management should indicate who the operator(s) are. As a general rule, contractors will meet this test and therefore in most

situations should be required to sign the permit application.

If you have any questions please contact Jim Michael, Office of Solid Waste at FTS 382-2231 or Anna Duncan, Office of Waste Programs Enforcement at FTS 382-4829.

Attachment

cc: Bruce Weddle, OSW
Elaine Stanley, OWPE
Chris Grundler, OSWER
Matt Hale, PSPD
Federal Facility Coordinators, Region I-X

bcc: Jim Michael, OSW
Anna Duncan, OWPE
Suzanne Rudzinski, PSPD

FAXBACK 12318
PPC 9524.1984(02)

PERMIT CONDITIONS: THE VELSICOL DECISION

OFFICE OF SOLID WASTE AND EMERGENCY RESPONSE

OCT 11 1984

SUBJECT: Recurring Permit Issues: Extent of Permit Conditions and the Velsicol Decision

FROM: Bruce Weddle, Director,
Permits and State Programs Division (WH-563)

TO: Hazardous Waste Division Directors,
Regions I-X

Attached to this memo is a copy of the Administrator's Decision in the Velsicol Appeal. Velsicol challenged its RCRA permit on the grounds that EPA lacked the authority to incorporate parts of the permit application into the permit as enforceable conditions and on the ground that this incorporation would lead to an inflexible permit with conditions that exceed RCRA's requirements. Velsicol had submitted a permit application that described both RCRA and non-RCRA activities at a chemical plant. The application led to a permit that was not limited to the RCRA storage facility at this plant.

The Administrator, citing the need for flexibility in writing permit conditions, declared that a permit writer can restate the requirements of the regulations, incorporate parts of the permit application directly into the permit, or write a completely original permit condition. The latter two approaches are permissible as long as "the permit conditions are 'based' on the appropriate substantive provisions of the regulations and are 'necessary to achieve compliance with the Act and regulations.'" This ruling upholds the approach used in the Model Permit.

The Administrator also found that both Velsicol and the Region had failed to take full advantage of the permit process to work together in preparing the permit conditions. As a result, permit conditions were written that, as the Region conceded, were too broad. For this reason, he remanded the permit to Region IV for additional public comment and potential revision of the permit after public comment. In the new public comment period, Velsicol can submit the information necessary to limit the permit

to the regulations.

In summary, this decision allows permit writers to continue using the Model Permit as the basis for RCRA permits, and to continue to incorporate parts of the permit application in the draft permit or to, when necessary, write completely original permit conditions. Permit writers must also ensure that applicants are aware that parts of the permit application can be put into the permit as enforceable permit conditions. Accordingly, the applicant should be encouraged, through NODs and requests for additional information, to identify and remove information that is not needed to demonstrate compliance with RCRA. The permit writers are also free to exercise extraneous information from those parts of the application that are incorporated into the permit.

This guidance replaces our earlier guidance of January 20, 1984, entitled "Recurring Permit Issues: Extent of Permit Conditions."

Attachment

cc: RCRA Branch Chiefs, Regions I-X
RCRA Permit Section Chiefs, Regions I-X
OSW Permits Branch

BEFORE THE ADMINISTRATOR
U.S.ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C.

In the Matter of:)
)
Velsicol Chemical Corporation,) RCRA Appeal No. 83-6
)
Applicant)
)
Permit No. TND-061-314-803)
)

REMAND AND PARTIAL DENIAL OF PETITION FOR REVIEW

In a petition filed pursuant to 40 CFR □124.19 (1983),1/ Velsicol Chemical Corporation (Applicant) requested review of a Resource Conservation and Recovery Act (RCRA) permit issued to it for operation of a hazardous waste management (HWM) facility at its chemical manufacturing plant in Chattanooga,

Tennessee. 2/ The contested permit was issued on September 28, 1983, by the Director, Air and Waste Management Division, Region IV, U.S. Environmental Protection Agency. According to the Applicant, the permit is inflexible due to "Region IV's

1/ 40 CFR □124.19 provides in pertinent part:

(a) Within 30 days after a RCRA...final permit decision has been issued..., any person who filed comments on the draft permit...may petition the Administrator to review any condition of the permit decision.

2/ The Applicant is currently operating its facility under the authority of "Interim Status," a provision in RCRA which allows persons who own facilities which were in existence on or before November 19, 1980, to continue to operation until final action is taken on their permit applications.

extensive incorporation of Velsicol's [permit] application into the permit itself...." The Applicant's specific objections to the permit fall into two broad categories: (1) the Region lacks the authority to incorporate substantial portions of the permit application in the permit as enforceable conditions; and (2) such incorporation led to a permit which is inflexible and contains conditions that are "stricter than required by the RCRA regulations." 3/

As explained below, insofar as the Applicant questions the Regional Administrator's authority to incorporate portions of the permit application in the final permit, the Applicant has not carried its burden of showing, in accordance with □124.19(a)(1) and (2), that the permit determination is clearly erroneous or involves an exercise of discretion or policy which is important and which should be reviewed as a discretionary matter. 4/ Therefore, review of that aspect of the permit is denied.

3/ See "Velsicol Chemical Corporation's Reply to Region IV's Response in Opposition to Velsicol's Petition" dated January 20, 1984. In its petition, the Applicant requests review of eighteen conditions in the permit. In some instances, it is not possible to discern the precise basis for the Applicant's challenge to a specific condition.

4/ The preamble to the regulations containing this standard for accepting review states that "this power of review should b e only sparingly exercised [and]...most permit conditions should be finally determined at the Regional level...."

45 Fed. Reg. 33412 (May 19, 1980).

However, with respect to the challenges to specific permit conditions on grounds that they are inflexible and too strict, the permit determination is remanded to the Region for the purposes of reopening the comment period and revising the permit conditions where appropriate.

A.

There is no compelling reason to question the Region's authority to incorporate portions of the permit application in the Applicant's permit. The regulations confer broad discretion on the Regional Administrator to either: (1) restate the requirements of the regulations as permit conditions (which he did in some instances); or (2) to "establish other permit conditions" which meet the regulatory standards. 40 CFR □270.32(b) ("Establishing Permit Conditions"). The text reads as follows:

(b) Each RCRA permit shall include permit conditions necessary to achieve compliance with the Act and regulations, including each of the applicable requirements specified in 40 CFR parts 264, 266, and 267. In satisfying this provision, the Director [Regional Administrator or authorized representative] may incorporate applicable requirements of 40 CFR Parts 264,266, and 267 directly into the permit or establish other permit conditions that are based on these parts.

When the Regional Administrator elects to "establish other permit conditions," instead of simply restating the requirements of the regulations, he can choose between incorporating parts of the permit application directly in the permit or crafting a completely original permit condition in his own words. No legal significance attaches to his choice, however, for in either instance the sole test of legal sufficiency is whether the requirements of □270.32(b) are satisfied, i.e., whether the permit conditions are "based" on the appropriate substantive provisions of the regulations and are "necessary to achieve compliance with the Act and regulations." Therefore, the contention that the Regional Administrator is without authority to incorporate portions of the application is rejected. 5/

Similarly, there is no basis for contending, as Velsicol does, that restating the requirements of the regulations should be preferred over incorporation of the permit application. The permit issuer needs to have broad discretionary powers in deciding which of the several approaches to writing permit conditions under □270.32(b) is most appropriate: permits are issued for many different kinds of hazardous waste facilities, ranging from those which only store small amounts of hazardous waste on a temporary basis, to those which are in the business

of disposing of large quantities of hazardous waste on a contin-

5/ In some cases, the regulations actually direct the Regional Administrator to incorporate approved plans from the application, thus depriving the Regional Administrator of discretion to do otherwise. For example, 40 CFR □264.112 (Closure Plan)

(a) The owner or operator of a hazardous waste management facility must have a written closure plan. The plan must be submitted within the permit application, in accordance with □270.14(b)(13) of this chapter, and approved by the Regional Administrator as part of the permit issuance proceeding under Part 124 of this chapter. In accordance with □122.29 of this chapter, the approved closure plan will become a condition of any RCRA permit.

uous basis. In some cases, a restatement of the regulation will be sufficient to insure the safe handling of the waste; in others it will not. Similarly, in some cases incorporation of the permit application will be sufficient; in others it will not. Finally in some cases it may be necessary to devise new language that is tailor-made for the specific circumstances. Therefore, any suggestion that any single approach to writing permit conditions is preferable in all circumstances is categorically rejected.

The Applicant argues, however, that even if incorporation is authorized by the regulations, it is bad policy. According to the Applicant, it results in inflexible permits which will have to be modified in the future, thus wasting valuable Agency and applicant resources. This argument also fails to persuade me that the permit should be reviewed. There is no reason to assume, as the Applicant evidently does, that incorporation will inevitably produce an inflexible permit needing modification. On the contrary, the outcome depends in large part on what the Applicant has submitted and on whether the procedures for developing permits are used effectively, so that unnecessary conflicts over the terms and conditions of the permit are minimized. Based on the record before me, I am convinced that the Applicant and the Region have not taken advantage of the permit procedures to avoid the present controversy. 6/

B.

The applicable procedures for permit issuance contemplate that the permit user and the permit applicant will work together in developing a permit. 7/ To that end, the regulations provide that if the permit application does not contain the information required to write a permit, the Regional Administrator

may issue a "notice of deficiency," requesting the information necessary to complete the application. 40 CFR □124.3(c). After the application is officially "complete," the Regional Administrator may still request additional information to clarify what has already been submitted, 40 CFR □124.3(c); and still later, after the draft permit determination is issued for public comment, the Regional Administrator may modify the permit (and reopen the comment period) if the Region receives comments from the Applicant (or the public) that appear to raise substantial new questions concerning the permit, 40 CFR □124.;14. Naturally, if the comments indicate that the permit would be contrary to the Act

6/ For much the same reason I do not believe that it is necessary to address the Applicant's contention that incorporation of major proportions of its application leads to the inclusion of permit conditions that, under □270.32(b), allegedly are not "necessary to achieve compliance with the Act and regulations." (Emphasis added.) There is no reason to assume that incorporation inevitably leads to inclusion of unnecessary conditions. In any event, whether or not a particular condition is necessary can be judged on a case-by-case basis and corrected as appropriate.

7/ See generally, 40 CFR Part 124 (1983).

or the regulations, the Regional Administrator can always deny the permit application (after proper notice, including circulation of a revised statement of basis) if the Region lacks the information necessary to make the permit conform to the law, 40 CFR □□124.3(d) and 124.6(b). In other words, the regulations provide an opportunity for an exchange of information between the Region, the Applicant, and the public in developing the terms of the permit. In the present case, however, it appears that neither the Region nor the Applicant took full advantage of this opportunity and the result, as the Region concedes, is a permit that contains provisions which are too detailed or that cover portions of the facility which are not directly related to hazardous waste operations. 8/

8/ The Region nevertheless justifies issuing the permit in its present form on the grounds that it is the Applicant's responsibility to provide the permit issuer with the information needed to prepare the permit, and if the resulting permit is too inflexible or embraces matters not properly within the scope of the regulations, the permit applicant is at fault, for the permit merely reflects the information supplied by the Applicant. And if that information produces an inflexible or overly broad permit, then the permit Applicant has no one to blame other than itself. The Applicant's remedy, according to the Region, is to seek a

modification of the permit.

The Applicant, on the other hand, responds by pointing out that it gave the region the information it requested; that the Region is under a duty to prepare an adequate permit; and that, regardless of the over or underabundance of the information supplied by the Applicant, the Region is not authorized to put conditions in the permit that are beyond its authority.

For reasons which are not apparent from the record, the Region did not request clarifying information, 9/ or issue a notice of deficiency, or reopen the public comment period for the purpose of considering modification of the proposed permit or denial of the permit application. The record does show, on the other hand, that the Applicant did raise its concerns about inflexibility and overbroadness in its comments on the draft permit. However, the record also shows that the Applicant's comments were not accompanied by the information which the Region would have needed to change the permit so that it would conform to the regulations. 10/

Since the Region concedes that some of the conditions in the permit are too broad, it is my conclusion that the Region erred when it issued the permit. Given the Region's stated willingness to entertain proposals to amend certain permit conditions, the Applicant should be given an opportunity to submit the information that will enable a permit to be prepared that is narrower and distinguishes between the Applicant's hazardous

9/ The Region did request other information from the Applicant to clarify some of the submitted material, but that request did not address the matters in question here.

10/ See, for example, 40 CFR □124.13 ("Obligation to raise issues and provide information during the public comment period"). Of course, it is a settled principle of law that the party who is in possession of information has the burden of producing it. See McCormick on Evidence (2d ed. 1972) ("A doctrine often repeated by the courts is that where the facts with regard to an issue lie peculiarly in the knowledge of a party, that party has the burden of proving the issue.").

and nonhazardous waste operations, and otherwise conforms to the regulations. Therefore, I am remanding the permit to the Region so that the comment period can be reopened under □124.14, thus giving the Applicant another opportunity to submit that information.

Conclusion

Accordingly, for the reasons stated above, it is my conclusion that review of the RCRA permit is not warranted at this time. The petition for review is denied insofar as it challenges the Regional Administrator's authority to incorporate portions of the permit application in the final permit. However, regarding Applicant's objection to specific conditions in the permit, the permit determination is remanded for the purposes of reopening the comment period to provide an opportunity to obtain the additional information needed to revise those permit conditions. 11/ If the information is not forthcoming and the Region is, therefore, unable to write a permit that complies with the Act and the regulations, the Region is instructed to issue an appropriate notice of its intent to deny the permit.

11/ Of course, only the permit conditions contested in the Applicant's petition for review will be the subject of the reopened comment period.

Any final permit determination shall reflect the Region's response to all comments. Thereafter, the Region's permit determination may be appealed in accordance with □124.19. 12/

So ordered.

Original Document signed

William D. Ruckelshaus
Administrator

Dated: SEP 14 1984

12/ For purposes of judicial review, final Agency action occurs after a final RCRA permit is issued by the Regional Administrator and Agency review procedures are exhausted. See CFR □124.19 (f)(l).
□

FAXBACK 12174
PPC 9432.1984(01)

OPERATOR AT DOE OAK RIDGE FACILITY, DETERMINATION OF

January 27, 1984

MEMORANDUM

SUBJECT: Determination of Operator at the DOE Oak Ridge Facility

FROM: Bruce R. Weddle, Acting Director
Permits and State Programs Division (WH-563)

TO: James H. Scarbrough, Chief
Residuals Management Branch
Region IV

I am writing in response to your letter of December 30 regarding who should be the operator in the pending permit for the DOE facility at Oak Ridge, Tennessee. My staff has been in contact with your staff and other HQ offices concerning the issues in this case. It is my understanding that the Office of General Counsel has requested copies of the permit and related documents and has asked your Office of Regional Counsel to delay any decisions in this matter until OGC has reviewed these documents. You should also be advised that the generic issue of contractors serving as RCRA permittees has been raised in the negotiations between EPA and DOE Headquarters. We will let you know of any developments in these negotiations and we urge you to keep us advised of developments in the Oak Ridge case.

I have two general comments at this time regarding the Oak Ridge operator issue.

First, the decision as to which party should be the operator in the permit should be made by the Regional Office, based on application of the definition of "operator" in □260.10. As general guidance in such determinations, I suggest that you consider the role of the contractor in making major decisions at the facility. In the contractor has considerable autonomy to make such decisions without DOE involvement, then the contractor could be considered the operator. If on the other had, DOE retains responsibility for major decisions, then DOE could be considered the operator. Obviously, there will be cases where the contractor's responsibility is less precisely defined; in those cases, the Region should exercise judgement given the

factual situation. (OGC may have additional guidance in this area following their review of the Oak Ridge situation. In particular, OGC will examine the contract language and site management practices at Oak Ridge in respect to the 260.1 definition.)

Second, your letter states that the Region may deny the DOE permit if the disagreement with DOE is not resolved. I suggest that you consider, instead, making a determination as to who is the "operator" and issuring the permit. (This assumes that the application demonstrates compliance with RCRA and is signed by the proper ower and operator.) If the permittee objects to permit conditions, he may appeal those conditions. But I'm not sure whether there are grounds to deny the permit and I doubt that such an action would help resolve the larger questions. (Again, OGC may have some suggestions in this regard as well.)

Please let me know if we can provide additional assistance on this issue.

cc: Gene Lucero
Peter Guerrero
Terry Grogan
Elizabeth Cotswoth
Susan Schmedes (OGC)
Tony Baney (OWPE)
Sandy Williams (OPA)

□

HWB-CAFB-99-005

DEPARTMENT OF THE AIR FORCE

HEADQUARTERS 27th FIGHTER WING (ACC)
CANNON AIR FORCE BASE NEW MEXICO

FEB 2001
RECEIVED

Colonel Daniel J. Runyan
Vice Commander
100 S DL Ingram Blvd Ste 100
Cannon AFB NM 88103-5214

Mr. Glenn von Gonten
RCRA Permit Management Program
New Mexico Environment Department
Hazardous and Radioactive Materials Bureau
PO Box 26110
Santa Fe NM 87504-0968

Dear Mr. Von Gonten

This letter is in response to the 7 Feb 01 extension granted for the Request of Supplemental Information RCRA - Part A & Part B, Cannon Air Force Base. The requested CD ROM and Waste Analysis Plan are attached. This CD includes the entire Part A and Part B permit application, the two revised figures (Figure 1-2 and Figure 15-1) and changes outlined in attachment 1.

Please feel free to contact Mrs. Vera Wood at (505)784-1097 or Mr. John Pike (505)784-1092 if you have any questions or require additional information.

Sincerely

Daniel J. Runyan

DANIEL J. RUNYAN, Colonel, USAF

Attachments:
1. CD ROM RCRA Permit Application with Certification Copy
2. CAFB Waste Analysis Plan
3. Response to Preliminary Technical Comments

ATTCHMENT 1

The following comments address issues that Hazardous Radioactive Materials Bureau (HRMB) noted during the administrative completeness review.

No.	PERMIT PART	REFERENCE HRMB COMMENT:	CAFB RESPONSE COMMENT:	
1.	A	Item III. C-Geographic Location	Latitude and longitude for CAFB in degrees, minutes, and seconds inserted in section 1 at 1.1	
2.	A	Item XIV – Description of Hazardous Waste	Part A changed to reflect container storage (S01) instead of containment building (S06). S01 codes are for containers (barrel, drum, etc. vs. reference S02 that is for tank storage. Cannon does not store hazardous waste in tanks at the TSDF.	
3.	A	Item XIV – Map	Map inclusion (Figure 1-2) depicting springs, surface water bodies and drinking water wells.	
4.	A/B	Owner/Operator Clarification	Cannon AFB is the owner/operator of the HWSF. Permit application revision made. Section 1 of the Part B provides explanation/discussion about the relation between DRMS and Cannon (DOD).	
5.	Part B Section 2.3	Hazardous Waste Profile Sheet (HWPS) Submission	Past 3 years HWPS and lab results for each waste stream permit writer per verbal agreement with HRMB will review generation.	
6.	Part B	Hazardous Waste Analysis Plan (WAP) Section 3, page 9, etc.	WAP inclusion for HRMB review.	
7.	Part B	Section 3.2.4. Page 21	Cannon will not accept off site waste.	
8.	Part B Appendix H	Pollution Incident Report Form	Revise IAW 40 CFR 265.56(d)(2) in accordance with (IAW) regulatory requirements for permitted treatment storage disposal facilities.	
9.	Part B	Explain or justify why DRMS-LH employees are		

		excepted in Appendix I.		
10.	Part B	Incorrect citation 40 CFR 268.7(a)(1)(vi) in section 15, 15.1.1	Citation correction now reads CFR 268.7(a)(4)	
11.	Part B Section 15 at 15.1.1	Explain, "...will be provided to the contractor..."	The term contractor has been changed in the permit application. Generally DOD does not transport hazardous waste in government vehicles. This service usually requires formal agreement (contracted) through private companies to ensure hazardous waste transporters follow proper regulatory requirements. Facility 226 (HWSF) does not treat nor dispose on site.	
12.	Part B Section 15.4.2	Clarify how incompatible waste and/or materials will not be mixed or stored together.	Section 15.4.2. revised. Personnel in work centers generating the waste containerize waste at the Initial Accumulation Point (point of generation) Full waste containers are taken to the HWSF for storage until manifested off site for treatment or disposal. Trained HWSF personnel store specifically identified waste receipts in accordance with Figure 15-1 (HWSF floor plan).	
13.	Part B 40 CFR 270.15(e) and 270.27	Section 16.2	Revisions made.	
14.	Part B	Chemical and Physical Analysis explain basis for the "Maximum amount" specified in Appendix A, Page A-2	Figures are based on current and projecting waste streams that may require storage due to mission changes. The HWSF will not exceed the permit total amount that would exceed the permit storage limits for any specific floor plan area. Appendix A duplicates the Part A application waste codes IAW 40 CFR 270.13(j) A specification of the hazardous waste listed or designated under 40 CFR Part 261 to be treated, stored, or disposed of at the facility, an estimate of the quantity of such waste to be treated, stored, or disposed annually, and a general description of the processes to be used for such waste.	
15.	Part B	Specify which generator locations are	Mission Support Squadron (MSS) Services Squadron (SVS) both incorporated in this revision submission.	

		referred to by "MSS" & "SVS" in Appendix B, Page B-3		
16.	Part B Waste Analysis Plan (WAP)	Section 3.2, Table 3-2 …	Attachment 2 is Cannon's WAP submission for HRMB review. Each waste stream is evaluated and documented whether the waste is Dioxin (40 CFR 261.31) or if the waste is restricted from Land Disposal (40 CFR 268). Reference attached disk IAW HRMB recommendation.	
17.	Part B Appendix D		The original WAP formats HWPS data in a database but not the actual DRMS Form 1930. Environmental personnel insert the data into the form set up in ACCESS database.	
18.	Part B Section 16.2	Include a reference list for each finalized RFI report (excluding work plans) (i.e. RFI report) IAW 40 CFR 270.14(d)(2)&(3).	Incorporated per HRMB request.	
19.	Part B Section 16.2	CAFB should add new section to Section 16 that specifically notes that the base has been involved with an RFI since issuance of EPA HSWA Modules in 1989. See Comment 18.	Reference incorporated per request.	
20.	Part B Section 15.1	"… Responsibility of the generator …"	Workcenter (initial accumulation point) where waste is generated is referred to as the generator of the waste. HWSF personnel inspect containers to ensure they are properly labeled, packaged and ready to be transported off site to a treatment or disposal facility. Cannon AFB is the permit owner/operator who ensures basewide and HWSF compliance.	
21.	Part B Section 15.2.5	Specify how spills will be analyzed to determine the	Reference section 15.2.5 revisions.	

		correct hazardous waste designation IAW 40 CFR 270.15(a)(5) and 264.175(b)(5)		
22.	CAFB Note:	Figure 15-1 Floor Plan of HWSF	Revised Figure 15-1 submission for Part B application insertion.	
23.	- Same -	HWSF Training Plan	DRMS training plan was not made available to incorporate. Training plan revisions incorporated with training matrix to comply with hazardous waste storage permit requirements.	

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GSA No. 0248-EPA-OT

For EPA Regional Use Only	EPA United States Environmental Protection Agency Washington, DC 20460 # Hazardous Waste Permit Application Part A *(Read the Instructions before starting)*	
Date Received Month Day Year		

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

[ ] A. First Part A Submission

[X] B. Revised Part A Submission (Amendment #_____)

C. Facility's EPA ID Number: NM 7557212454

D. Secondary ID Number *(If applicable)*:

II. Name of Facility

CANNON AIR FORCE BASE

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

A. Street: 27 CE/CEVP

Street *(Continued)*: 506 N DLINGRAM BLVD

City or Town: CANNON AFB

State: NM

Zip Code: 88103-5003

County Code *(If known)*: 035

County Name: CURRY

B. Land Type (Enter code): F

C. Geographic Location

LATITUDE (Degrees, minutes, & seconds): 34 23 46

LONGITUDE (Degrees, minutes & seconds): 103 18 30

D. Facility Existence Date

Month Day Year: 01 01 1967

IV. Facility Mailing Address

Street or P.O. Box: SAME

City or Town:

State:

Zip Code: -

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

Name *(Last)*: RUNYAN

(First): DANIEL J.

Job Title: USAF VICE COMMANDER

Phone Number *(Area Code and Number)*: 505-784-2727

VI. Facility Contact Address *(See instructions)*

A. Contact Address

Location	Mailing	Other
	X	

B. Street or P.O. Box: SAME

City or Town:

State:

Zip Code: -

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GSA No. 0248-EPA-OT

EPA I.D. Number *(Enter from page 1)*	Secondary ID Number *(Enter from page 1)*
NM7572124454	

VII. Operator Information *(See instructions)*

Name of Operator
COMMANDER 27TH FIGHTER WING

Street or P.O. Box
100 S DL INGRAM BLVD STE 100

City or Town	State	ZIP Code
CANNON AFB	NM	88103-5214

Phone Number *(Area Code and Number)*	B. Operator Type	C. Change of Operator Indicator	Date Changed Month	Day	Year
505-784-2253	F	Yes [ ] No [X]			

VIII. Facility Owner *(See instructions)*

A. Name of Facility's Legal Owner
27TH FW/CC

Street or P.O. Box
100 S DL INGRAM BLVD STE 100

City or Town	State	ZIP Code
CANNON AFB	NM	88103-5214

Phone Number *(Area Code and Number)*	B. Owner Type	C. Change of Owner Indicator	Date Changed Month	Day	Year
505-784-2253	F	Yes [ ] No [X]			

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

Primary		Secondary	
9711	*(Description)* NATIONAL DEFENSE		*(Description)*
Secondary		**Secondary**	
4522	*(Description)* AIR TRANSPORTATION, NON SCHEDULED		*(Description)*

X. Other Environmental Permits *(See instructions)*

A. Permit Type *(Enter code)*	B. Permit Number	C. Description
N	NMR05A012	NPDES MULTI-SECTOR STORM WATER GEN'L PERMIT
E	1517-M-1	AIR QUALITY PERMIT (NMED)

EPA I.D. Number *(Enter from page 1)*												Secondary ID Number *(Enter from page 1)*											
N	M	7	5	7	2	1	2	4	4	5	4												

XI. Nature of Business *(Provide a brief description)*

THE PRIMARY MISSION OF THE 27th FIGHTER WING IS TO SUPPORT AND EMPLOY "SUPERIOR COMBAT POWER" BY DEVELOPING AND MAINTAINING AIR CRAFT FIGHTER WING CAPABLE OF DAY, NIGHT, AND ALL-WEATHER COMBAT OPERATIONS.

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 ID Number *(Enter from page 1)*: N M 7 5 7 2 1 2 4 4 5 4

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)	2. Unit Of Measure (Enter code)	C. Process Total Number Of Units	For Official Use Only
X	1	S	0	2	5 3 3 7 8 8	G	0 0 1	
	1	S	0	1	10,720 . 000	G	001	
	2				.			
	3				.			
	4				.			
	5				.			
	6				.			
	7				.			
	8				.			
	9				.			
1	0				.			
1	1				.			
1	2				.			
1	3				.			

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 seq w/XII)		A. Process Code (From list above)			B. PROCESS DESIGN CAPACITY 1. Amount (Specify)	2. Unit Of Measure (Enter code)	C. Process Total Number Of Units	D. Description Of Process
X	1	T	0	4	.			In-situ Vitrification
	1				N/A .			
	2				.			
	3				.			
	4				.			

EPA I.D. Number *(Enter from page 1)*												Secondary ID Number *(Enter from page 1)*											
N	M	7	5	7	2	1	2	4	4	5	4												

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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N	M	7	5	7	2	1	2	4	4	5	4												

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		PLEASE REFER TO			
2		ATTATCHED SHEETS			
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					

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EPA ID Number *(Enter from page 1)*	Secondary ID Number *(Enter from page 1)*
N M 7 5 7 2 1 2 4 4 5 4	

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: Daniel J. Runyan	Date Signed: 5 Feb 2001
Name and Official Title (Type or print): DANIEL J. RUNYAN COLONEL, USAF VICE COMMANDER	
Owner Signature	Date Signed
Name and Official Title (Type or print)	
Operator Signature	Date Signed
Name and Official Title (Type or print)	
Operator Signature	Date Signed
Name and Official Title (Type or print)	

XIX. Comments

INFORMATION REQUIRED UNDER SECTION XV, XVI, AND XVII ARE INCLUDED IN PART B OF THE PERMIT APPLICATION, ATTACHED.

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

XIV. Description of Hazardous Wastes
(Attached Sheets)

Line Number	A. EPA HAZARD WASTE NO. (Enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (Enter code)	D. PROCESS (6) PROCESS CODES (Enter)	D. PROCESS (2) PROCESS DESCRIPTION (If a code is not entered in D(1))
1	D 0 0 1	62,500	P	S 0 1	
2	D 0 0 2	125,000	P	S 0 1	
3	D 0 0 3	12,500	P	S 0 1	
4	D 0 0 4	250	P	S 0 1	
5	D 0 0 5	250	P	S 0 1	
6	D 0 0 6	14,063	P	S 0 1	
7	D 0 0 7	37,500	P	S 0 1	
8	D 0 0 8	16,250	P	S 0 1	
9	D 0 0 9	3,125	P	S 0 1	
10	D 0 1 0	250	P	S 0 1	
11	D 0 1 1	250	P	S 0 1	
12	D 0 1 2	250	P	S 0 1	
13	D 0 1 3	125	P	S 0 1	
14	D 0 1 4	125	P	S 0 1	
15	D 0 1 5	125	P	S 0 1	
16	D 0 1 6	10,000	P	S 0 1	
17	D 0 1 7	2,500	P	S 0 1	
18	D 0 1 8	250	P	S 0 1	
19	D 0 1 9	250	P	S 0 1	
20	D 0 2 0	250	P	S 0 1	
21	D 0 2 1	250	P	S 0 1	
22	D 0 2 2	250	P	S 0 1	
23	D 0 2 3	250	P	S 0 1	
24	D 0 2 4	250	P	S 0 1	
25	D 0 2 5	250	P	S 0 1	
26	D 0 2 6	250	P	S 0 1	
27	D 0 2 7	250	P	S 0 1	
28	D 0 2 8	250	P	S 0 1	
29	D 0 2 9	250	P	S 0 1	
30	D 0 3 0	250	P	S 0 1	
31	D 0 3 1	250	P	S 0 1	
32	D 0 3 2	250	P	S 0 1	
33	D 0 3 3	250	P	S 0 1	
34	D 0 3 4	250	P	S 0 1	
35	D 0 3 5	16,250	P	S 0 1	
36	D 0 3 6	250	P	S 0 1	
37	D 0 3 7	250	P	S 0 1	
38	D 0 3 8	250	P	S 0 1	
39	D 0 3 9	250	P	S 0 1	
40	D 0 4 0	250	P	S 0 1	
41	D 0 4 1	250	P	S 0 1	
42	D 0 4 2	250	P	S 0 1	
43	D 0 4 3	250	P	S 0 1	
44	F 0 0 1	96,250	P	S 0 1	
45	F 0 0 2	68,750	P	S 0 1	
46	F 0 0 3	14,063	P	S 0 1	
47	F 0 0 4	1,250	P	S 0 1	
48	F 0 0 5	312,500	P	S 0 1	

XIV. Description of Hazardous Wastes
(Attached Sheets)

Line Number	A. EPA HAZARD WASTE NO. (Enter code)				B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (Enter code)	D. PROCESS (6) PROCESS CODES (Enter)									D. PROCESS (2) PROCESS DESCRIPTION (If a code is not entered in D(1))
49	F	0	0	6	625	P	S	0	1							
50	F	0	0	7	12,500	P	S	0	1							
51	F	0	0	8	12,500	P	S	0	1							
52	F	0	0	9	12,500	P	S	0	1							
53	F	0	2	7	12,500	P	S	0	1							
54	F	0	3	9	12,500	P	S	0	1							
55	P	0	0	1	375	P	S	0	1							
56	P	0	0	2	375	P	S	0	1							
57	P	0	0	3	375	P	S	0	1							
58	P	0	0	4	375	P	S	0	1							
59	P	0	0	5	375	P	S	0	1							
60	P	0	0	6	188	P	S	0	1							
61	P	0	0	7	375	P	S	0	1							
62	P	0	0	8	375	P	S	0	1							
63	P	0	0	9	375	P	S	0	1							
64	P	0	1	0	188	P	S	0	1							
65	P	0	1	1	375	P	S	0	1							
66	P	0	1	2	375	P	S	0	1							
67	P	0	1	3	188	P	S	0	1							
68	P	0	1	4	375	P	S	0	1							
69	P	0	1	5	188	P	S	0	1							
70	P	0	1	6	375	P	S	0	1							
71	P	0	1	7	375	P	S	0	1							
72	P	0	1	8	375	P	S	0	1							
73	P	0	2	0	375	P	S	0	1							
74	P	0	2	1	375	P	S	0	1							
75	P	0	2	2	188	P	S	0	1							
76	P	0	2	3	375	P	S	0	1							
77	P	0	2	4	375	P	S	0	1							
78	P	0	2	6	375	P	S	0	1							
79	P	0	2	7	375	P	S	0	1							
80	P	0	2	8	375	P	S	0	1							
81	P	0	2	9	375	P	S	0	1							
82	P	0	3	0	188	P	S	0	1							
83	P	0	3	1	375	P	S	0	1							
84	P	0	3	3	375	P	S	0	1							
85	P	0	3	4	375	P	S	0	1							
86	P	0	3	6	375	P	S	0	1							
87	P	0	3	7	375	P	S	0	1							
88	P	0	3	8	375	P	S	0	1							
89	P	0	3	9	375	P	S	0	1							
90	P	0	4	0	375	P	S	0	1							
91	P	0	4	1	375	P	S	0	1							
92	P	0	4	2	313	P	S	0	1							
93	P	0	4	3	375	P	S	0	1							
94	P	0	4	4	375	P	S	0	1							
95	P	0	4	5	375	P	S	0	1							
96	P	0	4	6	375	P	S	0	1							

XIV. Description of Hazardous Wastes
(Attached Sheets)

Line Number	A. EPA HAZARD WASTE NO. (Enter code)				B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (Enter code)	D. PROCESS									
							(6) PROCESS CODES (Enter)									(2) PROCESS DESCRIPTION (If a code is not entered in D(1))
97	P	0	4	7	375	P	S	0	1							
98	P	0	4	8	375	P	S	0	1							
99	P	0	4	9	375	P	S	0	1							
100	P	0	5	0	375	P	S	0	1							
101	P	0	5	1	563	P	S	0	1							
102	P	0	5	4	375	P	S	0	1							
103	P	0	5	6	188	P	S	0	1							
104	P	0	5	7	375	P	S	0	1							
105	P	0	5	8	375	P	S	0	1							
106	P	0	5	9	375	P	S	0	1							
107	P	0	6	0	375	P	S	0	1							
108	P	0	6	2	375	P	S	0	1							
109	P	0	6	3	375	P	S	0	1							
110	P	0	6	4	375	P	S	0	1							
111	P	0	6	5	375	P	S	0	1							
112	P	0	6	6	375	P	S	0	1							
113	P	0	6	7	375	P	S	0	1							
114	P	0	6	8	375	P	S	0	1							
115	P	0	6	9	375	P	S	0	1							
116	P	0	7	0	375	P	S	0	1							
117	P	0	7	1	375	P	S	0	1							
118	P	0	7	2	375	P	S	0	1							
119	P	0	7	3	375	P	S	0	1							
120	P	0	7	4	375	P	S	0	1							
121	P	0	7	5	375	P	S	0	1							
122	P	0	7	6	375	P	S	0	1							
123	P	0	7	7	375	P	S	0	1							
124	P	0	7	8	375	P	S	0	1							
125	P	0	8	1	375	P	S	0	1							
126	P	0	8	2	375	P	S	0	1							
127	P	0	8	4	375	P	S	0	1							
128	P	0	8	5	375	P	S	0	1							
129	P	0	8	7	375	P	S	0	1							
130	P	0	8	8	375	P	S	0	1							
131	P	0	8	9	375	P	S	0	1							
132	P	0	9	2	375	P	S	0	1							
133	P	0	9	3	375	P	S	0	1							
134	P	0	9	4	375	P	S	0	1							
135	P	0	9	5	375	P	S	0	1							
136	P	0	9	6	375	P	S	0	1							
137	P	0	9	7	375	P	S	0	1							
138	P	0	9	8	375	P	S	0	1							
139	P	0	9	9	375	P	S	0	1							
140	P	1	0	0	375	P	S	0	1							
141	P	1	0	2	375	P	S	0	1							
142	P	1	0	3	188	P	S	0	1							
143	P	1	0	4	375	P	S	0	1							
144	P	1	0	5	188	P	S	0	1							

XIV. Description of Hazardous Wastes
(Attached Sheets)

Line Number	A. EPA HAZARD WASTE NO. (Enter code)				B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (Enter code)	D. PROCESS (6) PROCESS CODES (Enter)									D. PROCESS (2) PROCESS DESCRIPTION (If a code is not entered in D(1))
145	P	1	0	6	375	P	S	0	1							
146	P	1	0	8	375	P	S	0	1							
147	P	1	0	9	375	P	S	0	1							
148	P	1	1	0	375	P	S	0	1							
149	P	1	1	1	375	P	S	0	1							
150	P	1	1	2	375	P	S	0	1							
151	P	1	1	3	375	P	S	0	1							
152	P	1	1	4	375	P	S	0	1							
153	P	1	1	5	375	P	S	0	1							
154	P	1	1	6	375	P	S	0	1							
155	P	1	1	8	375	P	S	0	1							
156	P	1	1	9	375	P	S	0	1							
157	P	1	2	0	375	P	S	0	1							
158	P	1	2	1	375	P	S	0	1							
159	P	1	2	2	188	P	S	0	1							
160	P	1	2	3	188	P	S	0	1							
161	U	0	0	1	375	P	S	0	1							
162	U	0	0	2	313	P	S	0	1							
163	U	0	0	3	188	P	S	0	1							
164	U	0	0	4	375	P	S	0	1							
165	U	0	0	5	375	P	S	0	1							
166	U	0	0	6	188	P	S	0	1							
167	U	0	0	7	188	P	S	0	1							
168	U	0	0	8	188	P	S	0	1							
169	U	0	0	9	188	P	S	0	1							
170	U	0	1	0	375	P	S	0	1							
171	U	0	1	1	188	P	S	0	1							
172	U	0	1	2	375	P	S	0	1							
173	U	0	1	4	375	P	S	0	1							
174	U	0	1	5	188	P	S	0	1							
175	U	0	1	6	188	P	S	0	1							
176	U	0	1	7	375	P	S	0	1							
177	U	0	1	8	188	P	S	0	1							
178	U	0	1	9	188	P	S	0	1							
179	U	0	2	0	375	P	S	0	1							
180	U	0	2	1	375	P	S	0	1							
181	U	0	2	2	188	P	S	0	1							
182	U	0	2	3	375	P	S	0	1							
183	U	0	2	4	375	P	S	0	1							
184	U	0	2	5	375	P	S	0	1							
185	U	0	2	6	375	P	S	0	1							
186	U	0	2	7	375	P	S	0	1							
187	U	0	2	8	375	P	S	0	1							
188	U	0	2	9	375	P	S	0	1							
189	U	0	3	0	375	P	S	0	1							
190	U	0	3	1	375	P	S	0	1							
191	U	0	3	2	375	P	S	0	1							
192	U	0	3	3	375	P	S	0	1							

XIV. Description of Hazardous Wastes
(Attached Sheets)

Line Number	A. EPA HAZARD WASTE NO. (Enter code)				B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (Enter code)	D. PROCESS									
							(6) PROCESS CODES (Enter)									(2) PROCESS DESCRIPTION (If a code is not entered in D(1))
193	U	0	3	4	375	P	S	0	1							
194	U	0	3	5	375	P	S	0	1							
195	U	0	3	6	375	P	S	0	1							
196	U	0	3	7	375	P	S	0	1							
197	U	0	3	8	375	P	S	0	1							
198	U	0	3	9	375	P	S	0	1							
199	U	0	4	1	375	P	S	0	1							
200	U	0	4	2	375	P	S	0	1							
201	U	0	4	3	375	P	S	0	1							
202	U	0	4	4	375	P	S	0	1							
203	U	0	4	5	375	P	S	0	1							
204	U	0	4	6	375	P	S	0	1							
205	U	0	4	7	375	P	S	0	1							
206	U	0	4	8	375	P	S	0	1							
207	U	0	4	9	375	P	S	0	1							
208	U	0	5	0	188	P	S	0	1							
209	U	0	5	1	188	P	S	0	1							
210	U	0	5	2	375	P	S	0	1							
211	U	0	5	3	375	P	S	0	1							
212	U	0	5	5	375	P	S	0	1							
213	U	0	5	6	375	P	S	0	1							
214	U	0	5	7	188	P	S	0	1							
215	U	0	5	8	375	P	S	0	1							
216	U	0	5	9	375	P	S	0	1							
217	U	0	6	0	375	P	S	0	1							
218	U	0	6	1	375	P	S	0	1							
219	U	0	6	2	375	P	S	0	1							
220	U	0	6	3	188	P	S	0	1							
221	U	0	6	4	375	P	S	0	1							
222	U	0	6	6	375	P	S	0	1							
223	U	0	6	7	375	P	S	0	1							
224	U	0	6	8	375	P	S	0	1							
225	U	0	6	9	375	P	S	0	1							
226	U	0	7	0	375	P	S	0	1							
227	U	0	7	1	375	P	S	0	1							
228	U	0	7	2	375	P	S	0	1							
229	U	0	7	3	375	P	S	0	1							
230	U	0	7	4	375	P	S	0	1							
231	U	0	7	5	375	P	S	0	1							
232	U	0	7	6	375	P	S	0	1							
233	U	0	7	7	375	P	S	0	1							
234	U	0	7	8	375	P	S	0	1							
235	U	0	7	9	375	P	S	0	1							
236	U	0	8	0	375	P	S	0	1							
237	U	0	8	1	375	P	S	0	1							
238	U	0	8	2	375	P	S	0	1							
239	U	0	8	3	375	P	S	0	1							
240	U	0	8	4	375	P	S	0	1							

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(Attached Sheets)

Line Number	A. EPA HAZARD WASTE NO. (Enter code)				B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (Enter code)	D. PROCESS									
							(6) PROCESS CODES (Enter)									(2) PROCESS DESCRIPTION (If a code is not entered in D(1))
241	U	0	8	5	375	P	S	0	1							
242	U	0	8	6	375	P	S	0	1							
243	U	0	8	7	375	P	S	0	1							
244	U	0	8	8	375	P	S	0	1							
245	U	0	8	9	375	P	S	0	1							
246	U	0	9	0	375	P	S	0	1							
247	U	0	9	1	375	P	S	0	1							
248	U	0	9	2	375	P	S	0	1							
249	U	0	9	3	375	P	S	0	1							
250	U	0	9	4	375	P	S	0	1							
251	U	0	9	5	375	P	S	0	1							
252	U	0	9	6	375	P	S	0	1							
253	U	0	9	7	375	P	S	0	1							
254	U	0	9	8	375	P	S	0	1							
255	U	0	9	9	375	P	S	0	1							
256	U	1	0	1	375	P	S	0	1							
257	U	1	0	2	375	P	S	0	1							
258	U	1	0	3	375	P	S	0	1							
259	U	1	0	5	375	P	S	0	1							
260	U	1	0	6	375	P	S	0	1							
261	U	1	0	7	375	P	S	0	1							
262	U	1	0	8	375	P	S	0	1							
263	U	1	0	9	375	P	S	0	1							
264	U	1	1	0	375	P	S	0	1							
265	U	1	1	1	375	P	S	0	1							
266	U	1	1	2	375	P	S	0	1							
267	U	1	1	3	375	P	S	0	1							
268	U	1	1	4	375	P	S	0	1							
269	U	1	1	5	375	P	S	0	1							
270	U	1	1	6	375	P	S	0	1							
271	U	1	1	7	375	P	S	0	1							
272	U	1	1	8	375	P	S	0	1							
273	U	1	1	9	375	P	S	0	1							
274	U	1	2	0	188	P	S	0	1							
275	U	1	2	1	375	P	S	0	1							
276	U	1	2	2	125	P	S	0	1							
277	U	1	2	3	188	P	S	0	1							
278	U	1	2	4	375	P	S	0	1							
279	U	1	2	5	375	P	S	0	1							
280	U	1	2	6	375	P	S	0	1							
281	U	1	2	7	375	P	S	0	1							
282	U	1	2	8	375	P	S	0	1							
283	U	1	2	9	375	P	S	0	1							
284	U	1	3	0	375	P	S	0	1							
285	U	1	3	1	375	P	S	0	1							
286	U	1	3	2	375	P	S	0	1							
287	U	1	3	3	188	P	S	0	1							
288	U	1	3	4	375	P	S	0	1							

XIV. Description of Hazardous Wastes
(Attached Sheets)

Line Number	A. EPA HAZARD WASTE NO. (Enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (Enter code)	D. PROCESS (6) PROCESS CODES (Enter)	D. PROCESS (2) PROCESS DESCRIPTION (If a code is not entered in D(1))
289	U 1 3 5	375	P	S 0 1	
290	U 1 3 6	375	P	S 0 1	
291	U 1 3 7	188	P	S 0 1	
292	U 1 3 8	375	P	S 0 1	
293	U 1 4 0	375	P	S 0 1	
294	U 1 4 1	375	P	S 0 1	
295	U 1 4 2	375	P	S 0 1	
296	U 1 4 3	375	P	S 0 1	
297	U 1 4 4	375	P	S 0 1	
298	U 1 4 5	375	P	S 0 1	
299	U 1 4 6	375	P	S 0 1	
300	U 1 4 7	375	P	S 0 1	
301	U 1 4 8	375	P	S 0 1	
302	U 1 4 9	375	P	S 0 1	
303	U 1 5 0	375	P	S 0 1	
304	U 1 5 1	1,250	P	S 0 1	
305	U 1 5 2	375	P	S 0 1	
306	U 1 5 3	375	P	S 0 1	
307	U 1 5 4	250	P	S 0 1	
308	U 1 5 5	375	P	S 0 1	
309	U 1 5 6	375	P	S 0 1	
310	U 1 5 7	375	P	S 0 1	
311	U 1 5 8	375	P	S 0 1	
312	U 1 5 9	313	P	S 0 1	
313	U 1 6 0	375	P	S 0 1	
314	U 1 6 1	563	P	S 0 1	
315	U 1 6 2	375	P	S 0 1	
316	U 1 6 3	375	P	S 0 1	
317	U 1 6 4	375	P	S 0 1	
318	U 1 6 5	188	P	S 0 1	
319	U 1 6 6	375	P	S 0 1	
320	U 1 6 7	375	P	S 0 1	
321	U 1 6 8	375	P	S 0 1	
322	U 1 6 9	375	P	S 0 1	
323	U 1 7 0	375	P	S 0 1	
324	U 1 7 1	375	P	S 0 1	
325	U 1 7 2	375	P	S 0 1	
326	U 1 7 3	375	P	S 0 1	
327	U 1 7 4	375	P	S 0 1	
328	U 1 7 6	375	P	S 0 1	
329	U 1 7 7	375	P	S 0 1	
330	U 1 7 8	375	P	S 0 1	
331	U 1 7 9	375	P	S 0 1	
332	U 1 8 0	375	P	S 0 1	
333	U 1 8 1	375	P	S 0 1	
334	U 1 8 2	375	P	S 0 1	
335	U 1 8 3	375	P	S 0 1	
336	U 1 8 4	375	P	S 0 1	

XIV. Description of Hazardous Wastes
(Attached Sheets)

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337	U 1 8 5	375	P	S 0 1	
338	U 1 8 6	375	P	S 0 1	
339	U 1 8 7	375	P	S 0 1	
340	U 1 8 8	125	P	S 0 1	
341	U 1 8 9	375	P	S 0 1	
342	U 1 9 0	375	P	S 0 1	
343	U 1 9 1	375	P	S 0 1	
344	U 1 9 2	375	P	S 0 1	
345	U 1 9 3	375	P	S 0 1	
346	U 1 9 4	375	P	S 0 1	
347	U 1 9 6	188	P	S 0 1	
348	U 1 9 7	375	P	S 0 1	
349	U 2 0 0	375	P	S 0 1	
350	U 2 0 1	375	P	S 0 1	
351	U 2 0 2	375	P	S 0 1	
352	U 2 0 3	375	P	S 0 1	
353	U 2 0 4	375	P	S 0 1	
354	U 2 0 5	375	P	S 0 1	
355	U 2 0 6	563	P	S 0 1	
356	U 2 0 7	375	P	S 0 1	
357	U 2 0 8	375	P	S 0 1	
358	U 2 0 9	375	P	S 0 1	
359	U 2 1 0	313	P	S 0 1	
360	U 2 1 1	375	P	S 0 1	
361	U 2 1 3	375	P	S 0 1	
362	U 2 1 4	375	P	S 0 1	
363	U 2 1 5	375	P	S 0 1	
364	U 2 1 6	375	P	S 0 1	
365	U 2 1 7	375	P	S 0 1	
366	U 2 1 8	375	P	S 0 1	
367	U 2 1 9	188	P	S 0 1	
368	U 2 2 0	313	P	S 0 1	
369	U 2 2 1	375	P	S 0 1	
370	U 2 2 2	375	P	S 0 1	
371	U 2 2 3	375	P	S 0 1	
372	U 2 2 5	375	P	S 0 1	
373	U 2 2 6	375	P	S 0 1	
374	U 2 2 7	375	P	S 0 1	
375	U 2 2 8	313	P	S 0 1	
376	U 2 3 4	375	P	S 0 1	
377	U 2 3 5	375	P	S 0 1	
378	U 2 3 6	375	P	S 0 1	
379	U 2 3 7	375	P	S 0 1	
380	U 2 3 8	375	P	S 0 1	
381	U 2 3 9	313	P	S 0 1	
382	U 2 4 0	375	P	S 0 1	
383	U 2 4 3	375	P	S 0 1	
384	U 2 4 4	375	P	S 0 1	

XIV. Description of Hazardous Wastes
(Attached Sheets)

Line Number	A. EPA HAZARD WASTE NO. (Enter code)				B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (Enter code)	D. PROCESS									
							(6) PROCESS CODES (Enter)									(2) PROCESS DESCRIPTION (If a code is not entered in D(1))
385	U	2	4	6	188	P	S	0	1							
386	U	2	4	7	375	P	S	0	1							
387	U	2	4	8	313	P	S	0	1							
388	U	2	4	9	125	P	S	0	1							
389	U	3	2	8	188	P	S	0	1							
390	U	3	5	3	188	P	S	0	1							
391	U	3	5	9	375	P	S	0	1							

State of New Mexico
ENVIRONMENT DEPARTMENT
Hazardous Waste Bureau
2044 A Galisteo, P.O. Box 26110
Santa Fe, New Mexico 87502-6110
Telephone (505) 827-1557
Fax (505) 827-1544

HWB-CAFB-99-005

GARY E. JOHNSON
GOVERNOR

PETER MAGGIORE
SECRETARY

PAUL R. RITZMA
DEPUTY SECRETARY

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

October 31, 2000

Colonel Jeffrey A. Remington
Commander
100 S. DL Ingram Blvd Suite 108
Cannon AFB, New Mexico 88103-5214

RE: REQUEST FOR SUPPLEMENTAL INFORMATION
RCRA PERMIT APPLICATION - PART A & PART B
CANNON AIR FORCE BASE
EPA ID NO.: NM7572124454

Dear Colonel Remington:

On June 8, 2000 the Hazardous Waste Bureau (HWB) of the New Mexico Environment Department (NMED) determined that the Cannon Air Force Base (Cannon) RCRA Permit Renewal Application (Parts A and B) submitted on July 13, 1999 was administratively complete. On June 16, 2000 HWB submitted an invoice for fees which Cannon paid on September 12, 2000.

In accordance with 20.4.2.201.3 and 20.1.4 NMAC, HWB has completed its first technical review of Cannon's Permit Renewal Application and has determined that it is not technically adequate and that changes are necessary before it can be approved. Therefore, HWB is issuing Cannon with this ***Request for Supplemental Information*** (RSI).

HWB's numbered comments are included as Attachment 1 and constitute our first technical review of Cannon's permit renewal application. Please submit a revised Permit Application or replacement pages within sixty (60) days of your receipt of this RSI. In addition, please include a response letter that indicates exactly where revisions have been made, cross-referencing HWB's numbered comments.

Following Cannon's submission of a revised Permit Renewal Application, HWB will again review the application for technical merit. If found to be technically adequate, HWB will then begin drafting Cannon's RCRA Permit. In accordance with 20.4.2.201.3.3 NMAC, HWB shall review the application and issue a Draft Permit or a Notice of Intent to Deny the Permit within one year after the application is deemed administratively complete, excluding time tolled during

all periods in which HWB is awaiting a response from the applicant to a Request for Supplemental Information or a Notice of Deficiency. If you have any questions concerning this RSI, please call me at 505-827-1558 (extension 1024).

Sincerely,

Glenn von Gonten
CAFB Project Leader
RCRA Permits Management Program

GVG
[CAFB-99-005]

cc: James P. Bearzi, NMED-HWB
Robert S. Dinwiddie, NMED-HWB
Pam Allen, NMED-HWB
John Kieling, NMED-HWB
Daniel A. Barnett, 27 CE/CEV
John Pike, CAFB 27 CE/CEVP
Sanford Hutsell, CAFB 27 CE/CEVP
David Neleigh, EPA Region 6
Reading File and Cannon Air Force Base Red File

ATTACHMENT 1

ATTACHMENT 1

The following comments comprise HWB's first technical review of Cannon's Permit Renewal Application. To ensure compliance with the regulations, HWB's comments below follow the order that the contents of a permit application are specified in the New Mexico Hazardous Waste Regulations (20.4.1.900 NMAC, incorporating Subpart B [Permit Application] to 40 CFR 270). As noted above, please provide a written response to each numbered comment as well as revisions to the application.

PERMIT APPLICATION - PART A

ITEM III.C - GEOGRAPHIC LOCATION

Comment 1. Please enter the latitude and longitude for Cannon AFB in degrees, minutes, and ***seconds***.

ITEM XIV - DESCRIPTION OF HAZARDOUS WASTES

Comment 2. Cannon's container storage unit is not a "containment building" as specified in 40 CFR 264.1100. Please revise Section XIV to refer to "Containers" (Process Code SO2) rather than a "Containment Building" (Process Code SO6).

ITEM XV - MAP

Comment 3. Please include a topographic map that depicts all springs and surface water bodies, plus all drinking water wells within ¼ mile of Cannon AFB.

ITEM XVIII - CERTIFICATIONS

Comment 4. Cannon's Part A signature page and discussion throughout the Part B indicate that the Defense Reutilization and Marketing Service (DRMS) will be the "operator" of Cannon's hazardous waste container storage area (hazardous waste storage facility - HWSF) and that Cannon AFB is the owner of the facility. If this is correct, then HWB will issue this permit jointly to both Cannon Air Force Base and the Defense Reutilization and Marketing Service. However, ITEM VII (Operator Information) lists Cannon AFB rather than DRMS as operator. Please resolve this issue and revise Cannon's permit application appropriately.

Please provide additional explanation/discussion in Section 1 of the Part B on the relationship between DRMS and Cannon AFB to address the requirements of 40 CFR 270.14(b)(1) [A general description of the facility].

PERMIT APPLICATION - PART B

40 CFR 270.14(b)(2) [Chemical and Physical Analyses]

Comment 5. Cannon indicates in § 2.3 (page 8) that they cannot submit copies of each Hazardous Waste Profile Sheet (HWPS) and laboratory results for each hazardous waste stream generated because the complete set of these documents is too extensive to include in the permit application; rather, Cannon provided examples of these documents in Appendix D. However, HWB must require Cannon to submit copies of the most recent Hazardous Waste Profile Sheet and the lab results for each waste stream generated, at least the past three years. Examples of these documents are not adequate for HWB to determine whether "At a minimum, these analyses shall contain all the information which must be known to treat, store, or dispose of the wastes properly...," in accordance with 40 CFR 264.13 and 270.14(b)(2).

40 CFR 270.14(b)(3) [Waste Analysis Plan]

Comment 6. Please attach a copy of Cannon's Hazardous Waste Analysis Management Action Plan (HWAMAP) referred to in Section 3 (page 9) and throughout the Part B. Based on the discussion in the Part B, it appears that the HWAMAP contains detailed information concerning Cannon's waste analysis plan that must be reviewed by HWB to determine whether it meets the requirements specified in §§ 270.14(b)(3) and 264.13(b).

Comment 7. Section 3.2.4 (Page 21) specifies the procedures that Cannon will follow in order to characterize off-site waste. This section appears to contradict § 1.2, which states that "The HWSF currently stores only those hazardous wastes generated within the base boundaries, and disposes of its wastes off-site through licensed treatment, storage or disposal contractors." It is HWB's understanding that Cannon will not accept any off-site waste. Please specify whether Cannon will accept off-site waste and make all appropriate revisions to Cannon's Permit Application - Part B.

40 CFR 270.14(b)(7) [Contingency Plan]

Comment 8. Appendix H (Pollution Incident Report form) must be revised to include all the information specified in § 262.34(d)(5)(iv). The revised form should include the phone number for NMED-HWB and should specify that Cannon will report all incidents verbally within 24 hours and in writing within 5 calendar days. HWB suggests that the revised form specifically reference § 262.34(d)(5)(iv).

40 CFR 270.14(b)(12) [Training Plan]

Comment 9. Please explain or justify why DRMS-LH employees are excepted in Appendix I (§ I.A.1). Please provide a copy of the referenced DRMS Corporation Training Plan and "Enclosure 1" (e.g. 1, 2, 3, 4 are missing) for HWB's review.

40 CFR 270.15 [Specific Part B Information Requirements for Containers]

Comment 10. Cannon's citation of 40 CFR 268.7(a)(1)(vi) in §§ 15 and 15.1.1 appears to be incorrect. I believe the correct citation should be 40 CFR 268.7(a)(4).

Comment 11. Please explain what is meant by "...will be provided to the contractor...." in § 15.1.1 (Page 73).

40 CFR 270.15(c) [Compliance with § 264.176]

Comment 12. Section 15.4.2 states that incompatible wastes and/or materials will not be mixed or stored together but does not detail what procedures Cannon has in place to ensure that this does not happen. Please revise § 15.4.2 (Page 77 - Incompatible Waste) to specify how Cannon will determine which wastes are incompatible and document how the wastes will be separated. Please review §§ 270.15(c); 264.177(c); 264.177(a), (b); and 264.17(b), (c) for the appropriate regulatory citations.

The revised section must discuss how the layout of the container storage area and Cannon's hazardous waste handling procedures prevent incompatible wastes from being placed in the same containers and how potentially incompatible waste is appropriately segregated into separate bays of the container storage area. Please refer to Appendix V to § 264 for "Examples of Potentially Incompatible Waste" that Cannon must consider.

40 CFR 270.15(e) [Information on Air Emission Control Equipment as Required in § 270.27]

Comment 13. Please revise § 16.2 (Page 79) to include the information required pursuant to §§ 270.15(e) and 270.27 (air emissions). Also, please review §§ 264.1086, 264.1088, 270.15(e), and 270.27 for additional requirements that may apply to Cannon.

40 CFR 270.14(b)(2) [Chemical and Physical Analyses]

Comment 14. Please explain the basis for the "maximum amount" specified Appendix A (Page A-2).

Comment 15. Please specify which generator locations are referred to by "MSS" & "SVS" in Appendix B (Page B-3).

40 CFR 270.14(b)(3) [Waste Analysis Plan]

Comment 16. Cannon has provided much useful information in § 3.2 and specifically in Table 3-2; however, not all the required information related to the selection of waste parameters has been presented. As noted above, HWB must review Cannon's HWAMAP in order to determine whether it satisfies the minimum requirements for a Waste Analysis Plan, as specified in §§ 270.14(b)(3) and 264.13(b).

HWB suggests that Cannon review EPA's guidance (WAP Guidance Manual) on Waste Analysis Plans (USEPA, OSWER 9938.4-03, April 1994; *Waste Analysis At Facilities That Generate, Treat, Store, And Dispose Of Hazardous Wastes - A Guidance Manual*). Although the regulations do not specify that facilities must follow any particular format, HWB will require that all the information discussed in EPA's WAP Guidance Manual be submitted in Cannon's Part B. HWB recommends that Cannon particularly review Part Two of EPA's WAP Guidance Manual: *Documenting and Conducting Waste Analysis.*

Cannon should revise Table 3-2 to include certain information that was omitted, such as whether the waste streams are subject to the Land Disposal Restrictions (LDR) and the EPA Hazardous Waste Codes. HWB recommends that Cannon refer to Table 2-3 of EPA's WAP Guidance Manual when revising Table 3-2 of their Part B.

40 CFR 270.14(b)(7) [Contingency Plan]

Comment 17. HWB suggests that Cannon resubmit the HWPS in Appendix D using DRMS Form 1930 (dated August 1997) or more recent forms. Cannon should also address any discrepancies between the DRMS forms and Table 2-11 of EPA's WAP Guidance Manual.

40 CFR 270.14(d) [Information Requirements for Solid Waste Management Units]

Comment 18. HWB suggests that Cannon revise § 16.2 (Page 79) to include a reference list for each finalized RFI report (excluding workplans) that specifies which SWMUs were investigated and the results of that investigation (i.e. RFI Report) to meet the requirements of § 270.14(d)(2) & (3).

40 CFR 270.14(d) [Information Requirements for Solid Waste Management Units]

Comment 19. CAFB should add a new section to Section 16 that specifically notes that CAFB has been involved with a RCRA Facility Investigation (RFI) since the issuance of their HSWA Module by EPA in 1989. This new section should note that the required data was submitted in one of the above noted RFI reports (see Comment 18).

40 CFR 270.15 [Specific Part B Information Requirements for Containers]

Comment 20. Cannon uses the phrase "...responsibility of the generator...." in § 15.1 (Page 73). Please note that this permit will be issued jointly to CAFB and DRMS, as noted above, and will refer throughout to "The Permittees." Please note that it will be the "Permittees" responsibility to label all containers, etc., rather than the "Generators" responsibility.

40 CFR 270.15(a)(5) [Compliance with § 264.175]

Comment 21. Please revise § 15.2.5 (Page 77) to specify how spills will be analyzed to determine the correct hazardous waste designation, in accordance with §§ 270.15(a)(5) and 264.175(b)(5).

CAFB / CSU PERMIT APPLICATION

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CAFB

WAP

PART THREE: CHECKLIST

	Yes	No	Comments
1. Facility Description			PART B
a. Are all processes that generate hazardous waste identified?			§ 2.1
b. Is sufficient information provided for each process to confirm that all hazardous wastes are identified?			§ 2.2; § 2.3
c. Have all hazardous waste management units been identified?			§ 1.3
d. Are descriptions of all hazardous waste management units provided?			§ 1.3
e. Have all hazardous and solid wastes been identified for each unit?			§ 1.3
f. Have the methods of waste management (e.g., stabilization) been described for each unit?			§ 1.3
g. Are process design limitations defined for each hazardous waste management unit?			
h. Have operational acceptance limits been established for each hazardous waste management unit?			
i. Are procedures in place to determine whether wastes are outside of their respective acceptance ranges?			
j. Do operational acceptance limits include applicable regulatory restrictions?			
2. Selecting Waste Parameters			
a. Are parameters for waste analysis identified (and, if applicable, included in the WAP)?			§ 3.1; § 3.2
b. Does the WAP identify a rationale for the selection of each waste analysis parameter?			§ 3.2
c. Does the WAP include parameters for the special waste analysis requirements in 40 CFR §§264/265.17, 264/265.314, 264/265.341, 264/265.1034(d), and 266.102(b), if applicable?			§ 15.4

Part Three (continued)
Checklist

	Yes	No	Comments
d. Have operational acceptance limits been defined as they relate to waste properties and process?			
e. Do operational acceptance limits include regulatory restrictions?			
f. Do waste analysis parameters address applicable operational acceptance limits?			
3. Selecting Sampling Procedures		✓	DNA
a. Has the number of sampling locations been identified?			
b. Are sampling procedures for each waste type identified?			
c. Are descriptions and justifications provided for any modified or non-standard procedures, as approved by EPA?			
d. Have decontamination procedures for sampling equipment been developed?			
e. Have sampling strategy techniques (e.g., grab, composite) been specified?			
f. Are procedures for sampling multi-phase wastes (if applicable) addressed?			
g. Has all sampling equipment been identified?			
h. Have the number and types of sampling containers been specified?			
i. Have sample preservation techniques been specified?			
j. Are sampling quality assurance and quality control procedures identified?			
k. Are proper packing and shipping procedures documented?			
l. Have procedures for the maintenance of all sampling equipment been documented?			
m. Are the precision and accuracy of sampling equipment stipulated?			
n. Are health and safety procedures for the protection of sampling personnel specified?			

Part Three (continued)
Checklist

	Yes	No	Comments
4. Selecting A Laboratory And Laboratory Testing And Analytical Methods			§ 3.4
a. Are laboratory and analytical methods specified for each waste managed at the facility? If not, is other information (i.e., acceptable knowledge) used to demonstrate waste analysis?			
b. Has a rationale been specified for each analytical and test method?			
c. Do the selected analytical methods meet all regulatory requirements for the identification of each hazardous waste (e.g., each hazardous waste characteristic)?			
d. Are descriptions and justifications provided for any modified or non-standard methods, as approved by EPA?			
e. Have chain-of-custody procedures for samples been specified (if necessary)?			§ 3.5
f. Does the laboratory have an adequate QA/ QC program?			§ 3.5
g. Have QA/QC procedures for each analytical procedure been identified?			
5. Selecting Waste Re-Evaluation Frequencies			§ 3.0
a. Have site-specific criteria for waste re-evaluations been specified?			§ 3.3
b. Is re-evaluation accomplished with adequate frequency?			
c. Are mechanisms in place for re-evaluating the sampling program each time the waste-generating processes change?			
d. Do the re-evaluation procedures specify criteria for the acceptance of wastes received from off-site generators?			
e. Do you notify off-site facilities (i.e., treatment, storage, and/or disposal facilities) of changes in waste characterizations due to process changes or other factors?			

Part Three (continued)
Checklist

	Yes	No	Comments
6. Special Procedural Requirements, Where Applicable			
a. Are procedures in place to verify the sources of the information provided from off-site generators or TSDFs (if applicable)?		✓	DNA
b. Have criteria been established for the preacceptance procedures of wastes based on information from off-site generators or TSDFs?			
c. Are procedures for waste inspections in place?			
d. Have fingerprint analysis parameters been developed?			
e. Have criteria been established for the acceptance of wastes based on the results of fingerprint analysis?			
f. Is there a methodology for identifying ignitable, incompatible, or reactive wastes?			
g. Are procedures in place to conduct testing to determine whether wastes are incompatible with each hazardous waste management unit on site?			
h. Have all wastes restricted under the LDRs been identified?			¶3.6
i. Are procedures in place to ensure that wastes meet applicable LDR treatment standards prior to land disposal?			

Proceed to Part Three

§ 264.13 General waste analysis.

(a)(1)Before an owner or operator treats, stores, or disposes of any hazardous wastes, or nonhazardous wastes if applicable under § 264.113(d), he must obtain a detailed chemical and physical analysis of a representative sample of the wastes. At a minimum, the analysis must contain all the information which must be known to treat, store, or dispose of the waste in accordance with this part and part 268 of this chapter.

(2) The analysis may include data developed under part 261 of this chapter, and existing published or documented data on the hazardous waste or on hazardous waste generated from similar processes.

[1: For example, the facility's records of analyses performed on the waste before the effective date of these regulations, or studies conducted on hazardous waste generated from processes similar to that which generated the waste to be managed at the facility, may be included in the data base required to comply with paragraph (a)(1) of this section. The owner or operator of an off-site facility may arrange for the generator of the hazardous waste to supply part of the information required by paragraph (a)(1) of this section, except as otherwise specified in 40 CFR 268.7 (b) and (c). If the generator does not supply the information, and the owner or operator chooses to accept a hazardous waste, the owner or operator is responsible for obtaining the information required to comply with this section.]

(3) The analysis must be repeated as necessary to ensure that it is accurate and up to date. At a minimum, the analysis must be repeated:

(i) When the owner or operator is notified, or has reason to believe, that the process or operation generating the hazardous wastes, or nonhazardous wastes if applicable under § 264.113(d), has changed; and

(ii) For off-site facilities, when the results of the inspection required in paragraph (a)(4) of this section indicate that the hazardous waste received at the facility does not match the waste designated on the accompanying manifest or shipping paper.

(4) The owner or operator of an off-site facility must inspect and, if necessary, analyze each hazardous waste movement received at the facility to determine whether it matches the identity of the waste specified on the accompanying manifest or shipping paper.

(b) The owner or operator must develop and follow a written waste analysis plan which describes the procedures which he will carry out to comply with paragraph (a) of this section. He must keep this plan at the facility. At a minimum, the plan must specify:

(1) The parameters for which each hazardous waste, or non-hazardous waste if applicable under § 264.113(d), will be analyzed and the rationale for the selection of these parameters (i.e., how analysis for these parameters will provide sufficient information on the waste's properties to comply with paragraph (a) of this section);

(2) The test methods which will be used to test for these parameters;

(3) The sampling method which will be used to obtain a representative sample of the waste to be analyzed. A representative sample may be obtained using either:

(i) One of the sampling methods described in appendix I of part 261 of this chapter; or

(ii) An equivalent sampling method.

[Comment: See § 260.21 of this chapter for related discussion.]

(4) The frequency with which the initial analysis of the waste will be reviewed or repeated to ensure that the analysis is accurate and up to date; and

(5) For off-site facilities, the waste analyses that hazardous waste generators have agreed to supply.

(6) Where applicable, the methods that will be used to meet the additional waste analysis requirements for specific waste management methods as specified in §§ 264.17, 264.314, 264.341, 264.1034(d), 264.1063(d), 264.1083, and 268.7 of this chapter.

(7) For surface impoundments exempted from land disposal restrictions under § 268.4(a), the procedures and schedules for:

(i) The sampling of impoundment contents;

(ii) The analysis of test data; and,

(iii) The annual removal of residues which are not delisted under § 260.22 of this chapter or which exhibit a characteristic of hazardous waste and either:

(A) Do not meet applicable treatment standards of part 268, subpart D; or

(B) Where no treatment standards have been established;

(1) Such residues are prohibited from land disposal under § 268.32 or RCRA section 3004(d); or

(2) Such residues are prohibited from land disposal under § 268.33(f).

(8) For owners and operators seeking an exemption to the air emission standards of subpart CC in accordance with § 264.1082—

(i) If direct measurement is used for the waste determination, the procedures and schedules for waste sampling and analysis, and the results of the analysis of test data to verify the exemption.

(ii) If knowledge of the waste is used for the waste determination, any information prepared by the facility owner or operator or by the generator of the hazardous waste, if the waste is received from off-site, that is used as the basis for knowledge of the waste.

(c) For off-site facilities, the waste analysis plan required in paragraph (b) of this section must also specify the procedures which will be used to inspect and, if necessary, analyze each movement of hazardous waste received at the facility to ensure that it matches the identity of the waste designated on the accompanying manifest or shipping paper. At a minimum, the plan must describe:

(1) The procedures which will be used to determine the identity of each movement of waste managed at the facility; and

(2) The sampling method which will be used to obtain a representative sample of the waste to be identified, if the identification method includes sampling.

(3) The procedures that the owner or operator of an off-site landfill receiving containerized hazardous waste will use to determine whether a hazardous waste generator or treater has added a biodegradable sorbent to the waste in the container.

[Comment: Part 270 of this chapter requires that the waste analysis plan be submitted with part B of the permit application.]

[45 FR 33221, May 19, 1980, as amended at 46 FR 2848, Jan. 12, 1981; 50 FR 4514, Jan. 31, 1985; 51 FR 40637, Nov. 7, 1986; 53 FR 31211, Aug. 17, 1988; 54 FR 33394, Aug. 14, 1989; 55 FR 22685, June 1, 1990; 55 FR 25494, June 21, 1990; 57 FR 8088, Mar. 6, 1992; 57 FR 54460, Nov. 18, 1992; 59 FR 62926, Dec. 6, 1994; 61 FR 4911, Feb. 9, 1996]

CHECKLIST FOR REVIEW OF FEDERAL RCRA PERMIT APPLICATIONS

SECTION C. WASTE CHARACTERISTICS

	Section and Requirement	Federal Regulation	Review Consideration[a]	Location in Application[b]	See Attached Comment Number[c]
C-1	Chemical and Physical Analyses	270.14(b)(2); 264.13(a)	Data generated by testing the waste, published data on the waste, or data gathered from similar processes may be used.	~~§7.0~~ §3.0	HWAMAP NOT PROVIDED
C-1a	Containerized Waste	270.15(b)(1); 264.172	Demonstrate that waste is compatible with container construction materials.	§9.1; §9.2 §15.1	
C-1b	Waste in Tank Systems	270.16(a); 264.190(a); 264.191(b)(2); 264.192(a)(2)	Demonstrate that tank construction materials are compatible with waste stored in tank.	—	
C-1c	Waste in Piles	270.18(a); 264.250(c)(1), (4)		—	
C-1d	Landfilled Wastes	270.21(a) 264.13(c)(3); 264.314	Demonstrate that sorbent materials are non-biodegradable.	—	
C-1e	Wastes Incinerated and Wastes used in Performance Tests	270.19(c); 270.62(b); 264.341		—	
C-1f	Wastes to be Land Treated	270.20(b)(4); 264.271(a)(1), (2); 264.272; 264.276, Part 261 Appendix VIII	If food-chain crops will be grown in or on treatment zone, identify hazardous constituents reasonably expected to be in or derived from waste.	—	
C-1g	Wastes in Miscellaneous Treatment Units	270.23(d)		—	

CHECKLIST FOR REVIEW OF FEDERAL RCRA PERMIT APPLICATIONS

SECTION C. WASTE CHARACTERISTICS

Section and Requirement		Federal Regulation	Review Consideration[a]	Location in Application[b]	See Attached Comment Number[c]
C-1h	Wastes in Boilers and Industrial Furnaces	270.66(c); 266.102(b)		—	
C-1i	Wastes on Drip Pads	270.26; 264.570		—	
C-2	Waste Analysis Plan	270.14(b)(3); 264.13(b),(c)		§3	
C-2a	Parameters and Rationale	270.14(b)(3); 264.13(b)(1)		§3.2	
C-2b	Test Methods	270.14(b)(3); 264.13(b)(2)		§3.1 TABLE 13-3	
C-2c	Sampling Methods	270.14(b)(3); 264.13(b)(3)	If a sampling method described in 261 Appendix I is not used, facility must provide detailed description of proposed method and demonstrate its equivalency.	§3.4; TABLE 3-3	
C-2d	Frequency of Analyses	270.14(b)(3); 264.13(b)(4)		§3.3	
C-2e	Additional Requirements for Wastes Generated Off Site	270.14(b)(3); 264.13 (b)(5), (c); 264.73(b)	Describe statistical method used to determine a representative sample of incoming waste.	§3.2.4	
C-2f	Additional Requirements for Ignitable, Reactive, or Incompatible Wastes	270.14(b)(3); 264.13(b)(6); 264.17		§9; §9.2 §15-1	
C-2g	Additional Requirements Pertaining to BIF Facilities	270.22; 266.102(e)(6)(ii)(C),(e)(6)(iii)		—	

CHECKLIST FOR REVIEW OF FEDERAL RCRA PERMIT APPLICATIONS

SECTION C. WASTE CHARACTERISTICS

Section and Requirement		Federal Regulation	Review Consideration[a]	Location in Application[b]	See Attached Comment Number[c]
C-3	Waste Analysis Requirements Pertaining to Land Disposal Restrictions	270.14(b)(3); 264.13; ~~264.73;~~ Part 268		§3.6	
C-3a	Waste Analysis ✓	270.14(a); 264.13(a)(1); 268.1; 268.7; 268.9; 268.32 - 268.37; 268.41 - 268.43	Waste that was newly identified or newly listed as hazardous after 11/08/84 for which the U.S. Environmental Protection Agency has not promulgated land disposal prohibitions or treatment standards are not subject to land disposal provisions.		
C-3a(1)	Spent Solvent and Dioxin Wastes F003, F005 F001, F002	270.14(a); 264.13(a)(1); 268.2(f)(1); 268.7; 268.30; 268.31			
C-3a(2)	California List Wastes	270.14(a); 264.13(a)(1); 268.7; 268.32; 268.42(a); RCRA Section 3004(d)		—	
C-3a(3)	Listed Wastes	270.14(a); 264.13(a)(1); 268.7; 268.33 - 268.36; 268.41 - 268.43	Arsenic-containing nonwastewater may use the extraction procedure (EP) toxicity test to determine compliance with treatment standards.		
C-3a(4)	Characteristic Wastes	270.14(a); 264.13(a)(1); 268.7, 268.9; 268.37; Part 268 Appendix I, IX	Characteristic D008 lead nonwastewater and D004 arsenic nonwastewater may use EP toxicity test to determine compliance with treatment standards.		

CHECKLIST FOR REVIEW OF FEDERAL RCRA PERMIT APPLICATIONS

SECTION C. WASTE CHARACTERISTICS

Section and Requirement		Federal Regulation	Review Consideration[a]	Location in Application[b]	See Attached Comment Number[c]
C-3a(5)	Radioactive Mixed Waste	270.14(a); 264.13(a); 268.7; 268.35(c),(d); 268.36(d); 268.42(d)	Hazardous debris containing radioactive waste must comply with treatment standards specified in 268.45.		
C-3a(6)	Leachates	270.14(a); 264.13(a); 268.35(a)	Leachate that originates from newly identified waste is not coded as F039 waste, but is labeled with newly listed waste code from which it is derived.		
C-3a(7)	Lab Packs	270.14(a); 264.13(a); 268.7(a)(7),(8); 268.42(c); Part 268 Appendix IV	Lab packs containing California list polychlorinated biphenyls (PCB) or dioxins must be treated according to special incineration requirements detailed in 268.42(a).		
C-3a(8)	Contaminated Debris	270.13(n); 268.2(g); 268.7; 268.9; 268.36; 268.45			
C-3a(9)	Waste Mixtures and Wastes with Overlapping Requirements	270.14(a); 264.13(a)(1); 268.7; 268.9; 268.41; 268.43; 268.45(a)	Waste that carries more than one characteristic or listed waste code must be treated to the most stringent treatment requirement for each hazardous waste constituent of concern.		
C-3a(10)	Dilution and Aggregation of Wastes	270.14(a); 268.3			
C-3b	Notification, Certification, and Recordkeeping Requirements	270.14(a); 264.13; 264.73; 268.7; 268.9(d)			

CHECKLIST FOR REVIEW OF FEDERAL RCRA PERMIT APPLICATIONS

SECTION C. WASTE CHARACTERISTICS

Section and Requirement		Federal Regulation	Review Consideration[a]	Location in Application[b]	See Attached Comment Number[c]
C-3b(1)	Retention of Generator Notices and Certifications	270.14(a); 264.13; 268.7(a)			
C-3b(2)	Notification and Certification Requirements for Treatment Facilities	270.14(a); 264.13; 268.7(b)			
C-3b(3)	Notification and Certification Requirements for Land Disposal Facilities	270.14(a); 264.13; 268.7(c)(1)			
C-3b(4)	Wastes Shipped to Subtitle C Facilities	270.14(a); 264.13; 268.7(a),(b)(6)			
C-3b(5)	Wastes Shipped to Subtitle D Facilities	270.14(a); 264.13; 268.7(d); 268.9(d)			
C-3b(6)	Recyclable Materials	270.14(a); 264.13; 268.7(b)(7)			
C-3b(7)	Recordkeeping	270.14(a); 264.13; 264.73; 268.7(a)(5),(a)(6),(a)(7), (d)	Recycling facilities must keep records of name and location of each entity receiving hazardous waste-derived product.		
C-3c	Requirement Pertaining to the Storage of Restricted Wastes	270.14(a); 264.73; 268.50			
C-3c(1)	Restricted Wastes Stored in Containers	270.14(a); 264.73; 268.50(a)(2)(i)			
C-3c(2)	Restricted Wastes Stored in Tanks	270.14(a); 264.73; 268.50(a)(2)(ii)			
C-3c(3)	Storage of Liquid PCB Wastes	270.14(a); 264.73; 268.50(f)			

CHECKLIST FOR REVIEW OF FEDERAL RCRA PERMIT APPLICATIONS SECTION C. WASTE CHARACTERISTICS					
Section and Requirement		Federal Regulation	Review Consideration[a]	Location in Application[b]	See Attached Comment Number[c]
C-3d	Exemptions, Extensions, and Variances to Land Disposal Restrictions				
C-3d(1)	Case-by-Case Extensions to an Effective Date	270.14(b)(21); 268.5			
C-3d(2)	Exemption from Prohibition	270.14(b)(21); 268.6			
C-3d(3)	Variance from a Treatment Standard	270.14(a); 264.73; 268.7; 268.44			
C-3d(4)	Requirements for Surface Impoundments Exempted from Land Disposal Restrictions	270.14(a); 264.13(b)(7); 268.4; 268.14			
C-3d(4)(a)	Exemption for Newly Identified or Listed Wastes	270.14(a); 264.13; 268.14	If owner/operator continues to treat newly listed or characteristic hazardous waste after 48 months from promulgation of new waste listing or characteristic, surface impoundment must be in compliance with 268.4.		
C-3d(4)(b)	Treatment of Wastes	270.14(a); 264.13; 268.4(a)(1),(b)			
C-3d(4)(c)	Sampling and Testing	270.14(a); 264.13(b)(6); 268.4(a)(2)(i),(iv)			
C-3d(4)(d)	Annual Removal of Residues	270.14(a); 264.13(b)(7)(iii); 268.4(a)(2)(ii)			

CHECKLIST FOR REVIEW OF FEDERAL RCRA PERMIT APPLICATIONS SECTION C. WASTE CHARACTERISTICS				
Section and Requirement	**Federal Regulation**	**Review Consideration[a]**	**Location in Application[b]**	**See Attached Comment Number[c]**
C-3d(4)(e) Design Requirements	270.14(a); 264.13; 268.4(a)(3),(4)			

Notes:

[a] Considerations in addition to the requirements presented in the regulations.

[b] For each requirement, this column must indicate one of the following: NA for not applicable, IM for information missing, or the exact location of the information in the application.

[c] If application is deficient in an area, prepare a comment describing the deficiency, attach it to the checklist, and reference the comment in this column.

CANNON AIR FORCE BASE
RCRA PERMIT APPLICATION – PART B

Intended to supersede original permit no. NM7572124454, dated 16 October 1989

Prepared for

New Mexico Environment Department
Hazardous and Radioactive Materials Bureau

July 1999

REVIEW CHECKLIST
FOR
PART B GENERAL REQUIREMENT
(§ 270.14)

FACILITY: CANNON AIR FORCE BASE

DOCUMENT TITLE: _____

DOCUMENT DATE: _____

UNIT: _____

TYPE OF PERMIT: _____

REVIEWER: _____

DATE OF REVIEW: _____

Regulatory Citation(s):	Requirement:	Provided: Yes/No/NA	Location:	Comments: ATK CHECKLISTS
§ 270.14(b)(1)	General description of the facility or unit.	YES	SEC. 1	B-1
§ 270.14(b)(2)	Chemical and/or physical analyses which must be known to treat/store/ dispose of waste.	YES	SEC. 2/3	C-1
§ 270.14(b)(3)	Waste analysis plan required to comply with:	YES	SEC. 3	C-2
§ 264.13(b)	Develop and follow a written waste analysis plan.	YES	SEC. 3	C-2
§ 264.13(c)	Off-site waste analysis requirements.	YES	SEC. 3.6	C-1d ?
§ 270.14(b)(4)	Security requirements under § 264.14 required.	YES	SEC. 4	F-1
§ 270.14(b)(5)	General inspection schedule in compliance with §264.15(b). Specific requirements of:	YES	SEC. 5	F-2
§ 264.174	Container inspections	YES	SEC. 5.3	F-2b(1)
§ 264.193(i)	Tank inspections	N/A	N/A	
§ 264.195	Overfill control inspections	N/A	N/A	F-2b(2)
§ 264.226	Surface impoundments monitoring and inspection	N/A	N/A	
§ 264.254	Waste pile monitoring and inspection	N/A	N/A	
§ 264.273	Land treatment design and operating requirements	N/A	N/A	

Regulatory Citation(s):	Requirement:	Provided: Yes/No/NA	Location:	Comments:
§ 264.303	Landfill monitoring and inspection	N/A	N/A	—
§ 264.602	Miscellaneous units	N/A	N/A	—
§ 264.1033	Process vent standards	N/A	N/A	—
§ 264.1052	Equipment leak air emission standards	N/A	N/A	—
§ 264.1053	Compressor standards	N/A	N/A	—
§ 264.1058	Standards for pumps, valves, pressure relief devicesflanges and connections.	N/A	N/A	—
§ 270.14(b)(6)	Justification of any waiver requests for § 264 Subpart C.	N/A	N/A	—
§ 270.14(b)(7)	Requirements for a contingency plan under § 264 Subpart D with specific requirements under:	YES	SEC. 7	G-1; G-2; G-3; G-4; G-5; G-6; G-7; G-8; G-9;
§ 264.227	surface impoundment emergency repairs.	N/A	N/A	—
§ 270.14(b)(8)	description of procedures and equipment used to:	YES	--	F-4(a) ~~; F-4(b)~~
§ 270.14(b)(8)(i)	prevent hazards in unloading operations (ramps, and special forklifts)	YES	SEC. 8.1	F-4(a)
§ 270.14(b)(8)(ii)	runoff prevention with berms, trenches, and dikes.	YES	SEC. 8.2	F-4(b)
§ 270.14(b)(8)(iii)	Prevent contamination of water supplies	YES	SEC. 8.3	F-4(c)

Regulatory Citation(s):	Requirement:	Provided: Yes/No/NA	Location:	Comments:
§ 270.14(b)(8)(iv)	mitigate effects of equipment failure and power outages	YES	SEC. 8.4	F-4(d)
§ 270.14(b)(8)(v)	prevent undue exposure of personnel by use of personal protective equipment (PPE)	YES	SEC. 8.5	F-4(e)
§270.14(b)(8)(vi)	prevent release to the atmosphere	YES	SEC. 8.6	F-4(f)
§270.14(b)(9)	description of controls of ignitable/ reactive waste with specific requirements of: § 264.17 separated and protected from ignition and reaction	YES	SEC. 9	F-5
§264.17(c)	documentation of compliance with § 264.17	YES	SEC. 9.2	F-5 b(1)
§270.14(b)(10)	traffic pattern studies that estimate volume and number of types of vehicles	YES	SEC. 10	B-4
	identify turn lanes	YES	SEC. 10	
	identify traffic/stacking lanes	YES	SEC. 10	
	describe road surface	YES	SEC. 10	
	describe road load bearing capacity	YES	SEC. 10	
	identify type and number of traffic controls	YES	SEC. 10	
§ 270.14(b)(11)	Facility/unit location information:	YES	--	B-3

Regulatory Citation(s):	Requirement:	Provided: Yes/No/NA	Location:	Comments:
(i)	seismic standard (264.18(a)	YES	SEC. 11	B-3a
(ii)	Seismic standard must show:	N/A	N/A	Not located within a listed political jurisdication.
(A)	no fault within 3,000' with displacement in Holocene time (within the last 10,000 yrs)	N/A	N/A	—
	Published geologic studies	N/A	N/A	—
	Aerial reconnaissance of a five (5) mile radius from the facility/unit	N/A	N/A	—
	Analysis of aerial photographs covering 3,000' radius from the facility/unit	N/A	N/A	—
	Walking studies of the radius if needed	N/A	N/A	—
(B)	If faults (to include lineations) which have displacement in Holocene time are present within 3,000', no faults pass with 200' of the portions of the facility where treatment, storage or disposal will be conducted	N/A	N/A	—
(iii)	100 year flood plain information	YES	SEC. 11	B-3b
(iv)	If in the 100 year flood plane:	N/A	N/A	Not within 100 year flood plain.
(A)	Engineering analysis of hydrostatic forces expected in a 100 year flood.	N/A	N/A	—
(B)	Structural engineering studies for flood protection to prevent washout.	N/A	N/A	—

Regulatory Citation(s):	Requirement:	Provided: Yes/No/NA	Location:	Comments:
(C)	Detailed description of procedures to remove hazardous waste to safety before flood reaches the waste:	N/A	N/A	—
	Reaches the waste, including:	N/A	N/A	—
(1)	timing of removal	N/A	N/A	—
(2)	Location to be moved to	N/A	N/A	—
(3)	dedicated equipment and personnel to ensure removal	N/A	N/A	—
(4)	Potential for accidental discharge during movement.	N/A	N/A	—
(v)	Plan to show how the facility will be brought into compliance with § 264.18(b). (Flood control)	N/A	N/A	—
§ 270.14(b)(12)	Training program introductory/ continuing in accordance with § 264.16.	YES	SEC. 12	H-1
	Must be designed to meet §264.16(a)(3) job task descriptions.	YES	SEC. 12.5	
§ 270.14(b)(13)	Closure plan designed to meet:	YES	--	I-1
§ 264.112	Amendment to closure plan	YES	SEC. 13.2	I-1b
§ 264.118	Post closure plan amendment	N/A	N/A	—
	Or if applicable:	YES	--	—
§ 264.178	containers	YES	SEC. 13.7/13.8	I-1e(4)

Regulatory Citation(s):	Requirement:	Provided: Yes/No/NA	Location:	Comments:
§ 264.197	tanks	N/A	N/A	—
§ 264.228	surface impoundments	N/A	N/A	—
§ 264.258	waste piles	N/A	N/A	—
§ 264.280	land treatment	N/A	N/A	—
§ 264.310	landfills	N/A	N/A	—
§ 264.351	incinerators	N/A	N/A	—
§ 264.601	miscellaneous units	N/A	N/A	—
§ 264.603	requirements by the Secretary	N/A	N/A	—
§ 270.14(b)(14)	Disposal units must comply with § 264.119	N/A	N/A	Federal Facility; I-3d
§ 270.14(b)(15)	Closure cost estimates § 264.142	N/A	N/A	I-4
270.14(b)(15)	Financial Assurance § 264.143	N/A	N/A	I-5
§ 270.14(b)(16)	Post Closure Care Cost Estimate § 264.144	N/A	N/A	I-6
	Post closure care financial assurance § 264.145	N/A	N/A	I-6
§ 270.14(b)(17)	Copy of insurance policy § 264.147, 264.147(a), 264.147(b), 264.147(c)	N/A	N/A	I-8
§ 270.14(b)(18)	State financial mechanism § 264.149 and/or 264.150	N/A	N/A	I-9

Regulatory Citation(s):	Requirement:	Provided: Yes/No/NA	Location:	Comments:
§ 270.14(b)(19)	Topographic Map Requirements: 1,000' around the facility/unit with at least a 1" (2.5 cm) = 200' (61 meters) scale and a contour interval of at least 5' (1.5 meters) if the relief is greater than 20' (6.1 meters) or 2' (.6 meters) if less than 20' (6.1 meters).	YES	FIG. 14-1	B-2a ; B-2a
(i)	map scale and date	YES	FIG. 14-1	B-2a
(ii)	100 year flood plain	YES	FIG. 11-1	
(iii)	surface water locations	YES	FIG. 1-2	
(iv)	surrounding land use	YES	FIG. 1-4	
(v)	wind rose	YES	FIG. 14-2	
(vi)	map orientation (N)	YES	FIG. 14-2	
(vii)	legal boundaries	YES	FIG. 1-3 AND 11-1	
(viii)	access controls	YES	FIG. 1-3 AND 14-3	
(ix)	injection/withdrawal well location on and off-site	YES	FIG. 1-2	
(x)	Buildings:	YES	FIG. 14-1	
	TSD Operations	YES	FIG. 14-1	
	Run-on/run-off control	YES	FIG. 14-1	
	Sewer lines: storm	YES	FIG. 14-3	

Regulatory Citation(s):	Requirement:	Provided: Yes/No/NA	Location:	Comments:
	sanitary	YES	FIG. 14-3	
	Process	N/A	N/A	
	Loading/unloading areas	YES	FIG. 15-1	
	Fire control information	YES	FIG. 14-3	
(xi)	Barriers for drainage or flood control	YES	FIG. 15-1	B-2a
(xii)	Location of operational units within the HWM Facility site showing where hazardous waste will be treated/stored/disposed of including equipment cleanup.	YES	FIG. 15-1	B-2a
§ 270.14(b)(20)	Compliance with other federal laws and regulations as required under 270.3:	N/A	N/A	K-1
(a)	Wild and Scenic Rivers Act	N/A	N/A	
(b)	National Historic Preservation Act	N/A	N/A	
(c)	Endangered Species Act	N/A	N/A	
(d)	Coastal Zone Management	N/A	N/A	
(e)	Fish and Wildlife Coordination Act	N/A	N/A	
(f)	Executive Orders	N/A	N/A	
§ 270.14(b)(21)	Compliance with Land Disposal Restrictions under § 268.5 and 268.6	YES	SEC. 15.2.7	? C-3d ?

Regulatory Citation(s):	Requirement:	Provided: Yes/No/NA	Location:	Comments:
§ 270.14(c)	Additional information as required under 264.90(b) ground water:	N/A	N/A	B-2b ?
§ 270.14(c)(1)	Ground water monitoring under § 265.90 through 265.94	N/A	N/A	
§ 270.14(c)(2)	Identification of uppermost aquifer, ground water flow rate and direction	N/A	N/A	B-2b
§ 270.14(c)	Additional information as required under 264.90(b) ground water: (continued)	N/A	N/A	
§ 270.14(c)(3)	A topographic map required under 270.14(b)(19) that identifies proposed point of compliance as required by 264.95.	N/A	N/A	
§ 270.14(c)(3)	Proposed location of ground water monitoring wells under 264.97	N/A	N/A	
§ 270.14(c)(4)	description of plume of contamination that has entered the ground water from a regulated unit at the time the application was submitted	N/A	N/A	
(i)	extent of plume indicated on topographic map required by 270.14(b)(19)	N/A	N/A	

Regulatory Citation(s):	Requirement:	Provided: Yes/No/NA	Location:	Comments:
(ii)	identification of constituents and concentration for appendix IX of § 264	N/A	N/A	B-26
§ 270.14(c)(5)	Detailed plan and an engineering report describing proposed ground water monitoring program under § 264.97.	N/A	N/A	
§ 270.14(c)(6)	If no releases are detected at date of submittal then follow § 264.98	N/A	N/A	
(i)	List of proposed: indicator parameters, waste constituents, reaction products that can provide reliable indication of presence of hazardous constituents in the ground water.	N/A	N/A	
(ii)	Proposed ground water monitoring system	N/A	N/A	
(iii)	Background values for each proposed monitoring parameter	N/A	N/A	
(iv)	Description of proposed sampling, analysis and statistical comparisons to be used	N/A	N/A	
§ 270.14(c)(7)	If a release is detected at the point of compliance then § 264.99 requires corrective action to be made under 264.100	N/A	N/A	

Regulatory Citation(s):	Requirement:	Provided: Yes/No/NA	Location:	Comments:
§ 270.15	Container Storage Information	YES	SEC. 15	D-1
§ 270.16	Tank Storage Information	N/A	N/A	—
§ 270.16(a)	Written assessment of tank, structural integrity and suitability submitted by an independent, certified, registered professional engineer	N/A	N/A	—
§ 270.16(b)	Dimensions and capacity of each tank	N/A	N/A	—
§ 270.16(c)	Feed system description	N/A	N/A	—
§ 270.16(d)	Piping diagram	N/A	N/A	—
§ 270.16(e)	External corrosion protection description as required by § 264.192(a)(3)(ii)	N/A	N/A	—
§ 270.16(f)	New tank installation as required by § 264.192(b) and (c)	N/A	N/A	—
§ 270.16(g)	Detailed description of the secondary containment as required by § 264.193(a) through (f)	N/A	N/A	—
§ 270.16(h)	Request for variance under § 264.193	N/A	N/A	—
§ 270.16(i)	Description of procedures and controls to prevent spills and overflows 264.194(b)	N/A	N/A	—

Regulatory Citation(s):	Requirement:	Provided: Yes/No/NA	Location:	Comments:
§ 270.16(j)	Detailed description of compliance with 264.198 and 264.199 for tanks containing reactive/ignitable waste.	N/A	N/A	—

LIST OF ACRONYMS

ADT	Average Daily Traffic
AFB	Air Force Base
AGE	Aerospace Ground Equipment
ANOVA	Analysis of Variance
ASTM	American Society for Testing and Materials
BCE	Base Civil Engineer
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes
C	Corrosivity
CE	Civil Engineering
CFR	Code of Federal Regulations
CHEMTREC	Chemical Transportation Emergency Center
CHRIS	Chemical Hazards Response Information System
CLP	Contract Laboratory Program
CMS	Corrective Measures Study
CSG	Combat Support Group
DCE	1,2-Dichloroethylene
DOD	Department of Defense
DOT	Department of Transportation
DRMO	Defense Reutilization and Marketing Office
DRMS	Defense Reutilization and Marketing Service
DSN	Defense Switched Network
E	Toxic Characteristics
EOD	Explosive Ordinance Disposal
EPA	Environmental Protection Agency
ETIS	Environmental Technical Information System
FRP	Facility Response Plan
H	Acute Hazardous Waste
HAZMAT	Hazardous Materials
HMIS	Hazardous Materials Information System
HRMB	Hazardous and Radioactive Materials Bureau (NMED)
HSWA	Hazardous and Solid Waste Amendments
HWMR	Hazardous Waste Management Regulation
HWPS	Hazardous Waste Profile Sheet
HWSF	Hazardous Waste Storage Facility
I	Ignitability
IRP	Installation Restoration Program
MOGAS	Motor Gasoline
MSDS	Material Safety Data Sheet
NFPA	National Fire Protection Association
NM	New Mexico
NMED	New Mexico Environment Department
NPDES	National Pollutant Discharge Elimination System

NRC	National Response Center
NSN	National Stock Number
OEHL	Occupational and Environmental Health Laboratory
OPLAN	Disaster Preparedness Plan (Operation Plan)
OSC	On-Scene Coordinator
OSHA	Occupational Safety and Health Administration
OWS	Oil/Water Separator
PCBs	Polychlorinated Biphenyls
POL	Petroleum Oil, and Lubricants
PPE	Personal Protective Equipment
R	Reactivity
RA	Remedial Action
RCRA	Resource Conservation and Recovery Act
RFA	RCRA Facility Assessment
RFI	RCRA Facility Investigation
RI	Remedial Investigation
RQ	Reportable Quantity
SPCC	Spill Prevention Control and Countermeasures
SPR	Spill Prevention Response
SRT	Spill Response Team
SWMU	Solid Waste Management Unit
SW-846	EPA Publication, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods"
T	Toxic Waste
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TOC	Total Organic Carbon
TOX	Total Organic Halogens
TRPH	Total Recoverable Petroleum Hydrocarbons
TSCA	Toxic Substance Control Act
TSDF	Treatment, Storage, Disposal Facility
US	United States
UST	Underground Storage Tank
VOCs	Volatile Organic Compounds
WAP	Waste Analysis Plan

• CAFB - CSB Permit Application (7/13/99)
• NM 757 212 4454

V. Part A -- Line-By-Line Instructions

This form must be completed by all applicants.

Please type or print in the unshaded area only leaving a blank box between words. The boxes are spaced at 1/4" intervals which accommodate elite type (12 *characters per inch).* When typing, hit the space bar twice between characters. If you print, place each character in a box. Abbreviate if necessary to stay within the number of boxes allowed for each item. If you must use additional sheets, indicate clearly the number of the Item on the form to which the information on the separate sheet applies.

Unless otherwise specified in the instructions to the form, each item must be answered. To indicate that each item has been considered, enter "NA" for not applicable if a particular item does not fit the circumstances or characteristics of your facility or activity.

If you have previously submitted information to EPA or to an approved State agency which answers a question, you may either repeat the information in the space provided or attach a copy of the previous submission. Some items in the form require narrative explanation. If more space is necessary to answer a question, attach a separate sheet entitled "Additional Information."

Note: When submitting a revised application, applicants must resubmit in their entirety each item on the application for which changes are requested. In addition, Items I, II, III, VI, VII, VIII and XVIII must be completed. All other sections may be left blank.

Estimated Burden: Public reporting burden for this collection of information is estimated to be 27.1 hours, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Director, Regulatory Information Division, 2136, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.

Item I - ID Number(s):

A. **First Part A Submission:** Place an "X" in this box if this is the facility's first Part A submission under a current or previous ownership. X

B. **Part A Amendment:** Place an "X" in this box if this is an amendment to a prior Part A application for this facility. Enter the amendment number, if known. ✓

C. **EPA ID Number:** Space is provided on Form A for insertion of your EPA Identification Number. If you have an existing facility, enter your Identification Number. If you don't know your EPA Identification Number, please contact your EPA Regional Office (see Table 2), which will provide you with your number, or send you an application (Notification of Regulated Waste Activity (EPA Form 8700-12)) to apply for an EPA Identification Number. If your facility is new (not yet constructed) or you do not have an Identification Number, leave this item blank. ✓

D. **Secondary ID Number:** Enter any non-EPA ID number that your facility has been issued. For example, for wastes regulated by a State or local authority, give the ID number that the other authority issued. X DNA

Item II - Name of Facility:

Enter the facility's official or legal name. Do not use a colloquial name. ✓

Item III - Facility Location:

A. **Location:** Give the address or location of the facility identified in Item II of this form. Please note that the address you give for Item III must be a physical address, *not a post office box or route number.* If the facility lacks a street name give the most accurate alternative geographic information (e.g., section number or quarter section number from county records or at intersection of Rts. 425 and 22). ✓

County Name and Code: Give the county code, if known. If you do not know the county code, enter the county, township, borough, parish, or other local government entity name, from which EPA can automatically generate the county code. To obtain a list of county codes, contact the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia, 22161 or at (703) ✓

487-4650. The list of codes is contained in the Federal Information Processing Standards Publication (FIPS PUB) number 6-3.

B. Land Type: Using the codes listed below, indicate in III. B. the code which *best describes* the current legal status of the land on which the facility is located:

F = Federal
S = State
I = Indian
P = Private
C = County
M = Municipal*
D = District
O = Other

**Note: If the Land Type is best described as Indian, County or District, please use those codes. Otherwise, use Municipal.*

C. Geographic Location: Enter the latitude and longitude of the facility in degrees, minutes, and seconds. For larger facilities, enter the latitude and longitude at the approximate mid-point of the facility. You may use the map you provide for Item XV to determine latitude and longitude. Latitude and longitude information is also available from Regional Offices of the U.S. Department of Interior, Geological Survey, and from State Natural Resource or Environmental Agencies.

DID NOT ENTER "SECONDS"

D. Facility Existence Date: Enter the appropriate date that applies to your facility from the following:

1. The date that hazardous waste operations at the facility commenced;

?

2. The date construction on the facility commenced; or

3. The date operation is expected to begin.

Item IV - Facility Mailing Address:

Please enter the Facility Mailing Address. If the Mailing Address and the Facility Location (Item III) are the same, you can print "same" in the space for Item IV.

Item V - Facility Contact:

Give the name, title, and work telephone number of a person who is thoroughly familiar with the operation of the facility and with the facts reported in this application and who can be contacted by reviewing offices if necessary.

Item VI - Facility Contact Address:

A. **Code:** If the contact address is the same as the facility location address listed in Item III or the facility mailing address listed in Item IV, place an "X" in the appropriate box to indicate where the contact may be reached. If the facility location address, the facility mailing address, and the facility contact address are all the same, mark the "Location" box. If the contact is *not* the same as those addresses in either Item III or IV, place an "X" in the "Other" box and complete Item VI.B. If an "X" is entered, in either the location or mailing box, Item VI.B. should be left blank.

B. **Address:** Enter the facility contact address only if the contact address is different from either the facility location address (Item III) or the facility mailing address (Item IV) and Item VI.A. was left blank.

NA

Item VII - Operator Information:

A. **Name:** Give the name, as it is legally referred to, of the person, firm, public organization, or any other entity which operates the facility described in this application. This may or may not be the same name as the facility. The operator of the facility is the legal entity which controls the facility's operation rather than the plant or site manager. Do not use a colloquial name. Also enter the telephone number and address where the operator can be contacted.

OK SHOULD BE SAME AS OWNER i.e. CAFD, NOT "COMPANY"

B. **Operator Type:** Using the codes listed below, indicate in VII.B. the code which *best describes* the legal status of the current operator of the facility:

F = Federal
S = State
I = Indian
P = Private
C = County
M = Municipal*
D = District
O = Other

**Note: If the Operator Type is best described as Indian, County or District, please use those codes. Otherwise, use Municipal.*

C. **Operator Indicator:** *(If this is your installations first Part A application, leave VII.C. blank and skip to Item VIII. If this is a subsequent Part A application, complete Item VII.C. as directed below.)*

If the operator of this facility has changed since the facility's previous Part A was submitted, place an "X" in the box marked "Yes" and enter the date the operator changed.

If the operator of this facility has not changed since the facility's previous Part A was submitted, place an "X" in the box marked "No" and skip to Item VIII.

NA

If any additional operators have been added or replaced since the facility's previous Part A was submitted, place an "X" in the box marked "Yes." Use the comment section in XIX to list any additional operators, the dates they became operators, and which operator(s) (if any) they replaced. If necessary attach a separate sheet of paper.

Item VIII - Facility Owner:

A. **Name:** Enter the name of the legal owner(s) of the installation, including the property owner. Also enter the address and phone number where this individual can be reached. Use the comment section or additional sheets if necessary to list more than one owner.

?

B. **Owner Type:** Using the codes listed below, indicate in VIII.B. the code which *best describes* the legal status of the current owner of the facility:

F = Federal
S = State
I = Indian
P = Private
C = County
M = Municipal*
D = District
O = Other

**Note: If the Operator Type is best described as Indian, County or District, please use those codes. Otherwise, use Municipal.*

C. **Owner Indicator:** *(If this is your installations first Part A application, leave VIII. C. blank and skip to Item IX. If this is a subsequent Part A application, complete Item VIII.C. as directed below.)*

If the owner of this facility has changed since the facility's previous Part A was submitted, place an "X" in the box marked "Yes" and enter the date the owner changed.

If the owner of this facility has not changed since the facility's previous Part A was submitted, place an "X" in the box marked "No" and skip to Item IX.

If any additional owners have been added or replaced since the facility's previous Part A was submitted, place an "X" in the box marked "Yes." Use the comment section in XIX to list any additional owner(s), the dates they became owners, and which owner(s) (if any) they replaced. If necessary attach a separate sheet of paper.

Item IX - SIC Codes:

List, in descending order of significance, the four digit standard industrial classification (SIC) codes which best describe your facility in terms of the principal products or services you produce or provide. Also, specify each classification in words. These classifications may differ from the SIC codes describing the operation generating the hazardous wastes.

SIC code numbers are descriptions which may be found in the Standard Industrial Classification Manual prepared by the Executive Office of the

President, Office of Management and Budget, which is available from the Government Printing Office, Washington, D.C. Use the current edition of the manual. If you have any questions concerning the appropriate SIC code for your facility, contact your EPA Regional office (see Table 2).

Item X - Existing Environmental Permits:

A. **Permit Type:** Using the codes listed below, enter a letter on the form for all other environmental permits the facility has received, or for which the facility has filed an application, even if the permit has not yet been received.

- N = NPDES (National Pollutant Discharge Elimination System, Clean Water Act)
- P = PSD (Prevention of Significant Deterioration, Clean Air Act)
- R = RCRA (Resource Conservation and Recovery Act)
- U = UIC (Underground Injection Control, Safe Drinking Water Act)
- F = EPA 404 (Dredge or Fill Permits under Section 404 of the Clean Water Act)
- E = Other relevant environmental permits. List any other relevant Federal (e.g., permits under the Ocean Dumping Act), State (e.g., State permits for new air emission sources in nonattainment areas under Part D of the Clean Air Act or State permits under Section 404 of the Clean Water Act), or local environmental permits or applications.

B. **Permit Number:** Give the number of each presently effective permit issued to the facility for each program, or if you have previously filed an application, but have not yet received a permit, give the number of the application. If you have more than one currently effective permit for your facility under a particular permit program, you may list additional permit numbers on a separate sheet of paper.

C. **Description:** Use the space provided for any additional information identifying or describing the permits.

(1) NEED TO CHECK RCRIS

Item XI - Nature of Business:

Briefly describe the nature of your business (e.g., products produced or services provided). If more space is needed, please attach additional sheets.

Item XII - Process Codes and Design Capacities:

The information in Item XII describes all the processes that will be used to treat, store, or dispose of hazardous waste at the facility. The design capacity of each process must be provided as part of the description. The design capacity of injection wells and landfills at existing facilities should be measured as the remaining, unused capacity. Tank storage should refer to each tank, not each tank farm. Please indicate the location of each process listed in Item XII on either the map provided for Item XV or the photographs provided for Item XVII. Use the line number from Item XII to indicate where the process(es) are located. See the form for the detailed instructions to Item XII.

X
• SHOULD BE "SØ2" NOT "SO6"
• ? SHOULD SPECIFY D8Ø HWLF (CLOSED?) CELL 3, LF5 (SWMU 113) ?

Note: Process codes T80-T93 are designated for Boilers and Industrial Furnaces (BIFs) as regulated under 40 CFR Part 266, Subpart H.

Item XIII - Other Processes:

NA

Use this space to describe other processes that did not have a specific process code listed in Item XII.A. of the form. Follow the instructions in Item XII.A. on the form for other process codes (i.e., D99, S99, T04, and X99 process codes).

Item XIV - Description of Hazardous Wastes:

The information in Item XIV describes all the hazardous waste that will be treated, stored, or disposed at the facility. In addition, the processes that will be used to treat, store, or dispose of each waste and the estimated annual quantity of each waste must be provided. See the form for the detailed instructions to Item XIV.

• INCLUDES ALL "D" CODES
FEW "F" "
Ø "K"
~~P001~~
MANY "P" + "U"

Item XV - Map:

Provide a topographic map or maps of the area extending to at least one mile beyond the property boundaries of the facility. The map must clearly show the following:

FIG. 14-1

SHOWS TOPO @ CSB ONLY, NOT ENTIRE FACILITY

- The legal boundaries of the facility; X FIG. 1-1
- The location and serial number of each of your existing and proposed intake and discharge structures; ?
- All hazardous waste management facilities; FIG. 16-1
- Location of all processes listed in Items XII and XIII identified by process code; ✓
- Each well where you inject fluids underground; and NA
- All springs and surface water bodies in the area, plus all drinking water wells within 1/4 mile of the facility which are identified in the public record or otherwise known to you. X FIG. 1-2

If an intake or discharge structure, hazardous waste disposal site, or injection well associated with the facility is located more than one mile from the plant, include it on the map, if possible. If not, attach additional sheets describing the location of the structure, disposal site, or well, and identify the U.S. Geological Survey (or other) maps corresponding to the location.

On each map, include the map scale, a meridian arrow showing north, and latitude and longitude at the nearest whole second. On all maps of rivers, show the direction of the current, ~~and in tidal waters, show the~~ directions of the ebb and flow tides. Use a 7-1/2 minute series map published by the U.S. Geological Survey, which may be obtained through the U.S. Geological Survey Office listed below. If a 7-1/2 minute series map has not been published for your facility site, then you may use a 15 minute series map from the U.S. Geological Survey. If neither a 7-1/2 nor 15 minute series map has been published for your facility site, use a plant map or other appropriate map, and include all the requested information; in this case, briefly describe land uses in the map area (e.g., residential, commercial). X

You may trace your map from a geological survey chart, or other map meeting the above specifications. If you do, your map should bear a note showing the number or title of the map or chart it was traced from. Include the names of nearby towns, water bodies, and other prominent points.

To obtain map indexes contact one of the following Earth Science Information Centers (ESIC):

Anchorage - ESIC
4230 University Dr., Rm. 101
Anchorage, AK 99508-4664
(907) 786-7011

Fairbanks - ESIC
Box 12, New Federal Building
101 Twelfth Avenue
Fairbanks, AK 99701
(907) 474-7487
(907) 474-7598

Lakewood - ESIC
Box 25046, MS 504
Denver Federal Center
Denver, CO 80225
(303) 236-5829

Menlo Park - ESIC
Room 3128, Building 3, MS 532
345 Middlefield Road
Menlo Park, CA 94025
(415) 329-4390

Reston - ESIC
507 National Center
Reston, VA 22092
(703) 648-6045

Rolla - ESIC
1400 Independence Road, MS 231
Rolla, MO 65401
(573) 308-3500

Salt Lake City - ESIC
8105 Federal Building
125 S. State Street
Salt Lake City, UT 84138
(801) 975-3742

Sioux Falls - ESIC
EROS Data Center
Sioux Falls, SD 57198-0001
(605) 594-6151

Spokane - ESIC
U.S. Post Office Building, Room 135
West 904 Riverside Avenue
Spokane, WA 99201-1088
(509) 353-2524

Stennis Space Center - ESIC
Building 3101
Stennis Space Center, MS 39529
(601) 688-3541

Washington, D.C. - ESIC
Department of the Interior Building
18th & C Streets, NW, Room 2650
Washington, D.C. 20240
(202) 208-4047

Item XVI - Facility Drawing:

All existing facilities must include a drawing showing the general layout of the facility. This drawing should be approximately to scale and fit on an 8 1/2" x 11" sheet of paper. This drawing should show the following:

1. The property boundaries of the facility; FIG. 14-1 FIG. 1-1

2. The areas occupied by all storage, treatment, or disposal operations that will be used during interim status; ? SWMU 113 — NA

3. The name of each operation (e.g., multiple hearth incinerator, drum storage area, etc.); — FIG. 16-1

4. Areas of past storage, treatment, or disposal operations; — FIG. 16-1

5. Areas of future storage, treatment, or disposal operations; and — NA

6. The approximate dimensions of the property boundaries and all storage, treatment, and disposal areas. (Note: where applicable, use the process codes listed in Items XII and XIII to indicate the location of all storage, treatment, and disposal areas.) — FIG. 1-3

New facilities do not have to complete Item XVI.

Item XVII - Photographs:

All existing facilities must include photographs that clearly delineate all existing structures, all existing areas for storing, treating, or disposing of hazardous waste; and all known sites of future storage, treatment, or disposal operations. Photographs may be color or black and white, ground-level or aerial. Indicate the date the photograph was taken on the back of each photograph. Use the process codes listed in Items XII and XIII to indicate the location of all storage, treatment, and disposal areas. — APP. "E" HWSF ONLY

Item XVIII - Certification(s):

All facility owners must sign Item XVIII. If the facility will be operated by someone other than the owner, then the operator must also sign Item XVIII. Federal regulations require the certification to be signed as follows:

A. For a corporation, by a principal executive officer at least the level of vice president;

B. For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or

C. For a municipality, State, Federal, or other public facility, by either a principal executive officer or ranking elected official.

The Resource Conservation and Recovery Act provides for severe penalties for submitting false information on this application form.

Section 3008(d) of the Resource Conservation and Recovery Act provides that "Any person who knowingly makes any false statement or representation in any application, ...shall, upon conviction be subject to a fine of not more than $25,000 for each day of violation, or to imprisonment not to exceed one year, or both."

Notes

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
§ 270.13 CONTENTS OF PART A OF THE PERMIT APPLICATION. Part A of the RCRA application shall include the following information:		
(a) The activities conducted by the applicant which require it to obtain a permit under RCRA.		
(b) Name, mailing address, and location, including latitude and longitude of the facility for which the application is submitted.		
(c) Up to four SIC codes which best reflect the principal products or services provided by the facility.		
(d) The operator's name, address, telephone number, ownership status, and status as Federal, State, private, public, or other entity.		
(e) The name, address, and phone number of the owner of the facility.		
(f) Whether the facility is located on Indian lands.		
(g) An indication of whether the facility is new or existing and whether it is a first or revised application.		
(h) For existing facilities,		
(1) a scale drawing of the facility showing the location of all past, present, and future treatment, storage, and disposal areas; and		
(2) photographs of the facility clearly delineating all existing structures; existing treatment, storage, and disposal areas; and sites of future treatment, storage, and disposal areas.		
(i) A description of the processes to be used for treating, storing, and disposing of hazardous waste, and the design capacity of these items.		
(j) A specification of the hazardous wastes listed or designated under 40 CFR 261 to be treated, stored, or disposed of at the facility, an estimate of the quantity of such wastes to be treated, stored, or disposed annually, and a general description of the processes to be used for such wastes.		
(k) A listing of all permits or construction approvals received or applied for under any of the following programs:		
(1) Hazardous Waste Management program under RCRA.		

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
(2) UIC program under the SWDA.		
(3) NPDES program under the CWA.		
(4) Prevention of Significant Deterioration (PSD) program under the Clean Air Act.		
(5) Nonattainment program under the Clean Air Act.		
(6) National Emission Standards for Hazardous Pollutants (NESHAPS) preconstruction approval under the Clean Air Act.		
(7) Ocean dumping permits under the Marine Protection Research and Sancturies Act.		
(8) Dredge or fill permits under section 404 of the CWA.		
(9) Other relevant environmental permits, including State permits.		
(l) A topographic map (or other map if a topographic map is unavailable) extending one mile beyond the property boundaries of the source, depicting the facility and each of its intake and discharge structures; each of its hazardous waste treatment, storage, or disposal facilities; each well where fluids from the facility are injected underground; and those wells, springs, other surface water bodies, and drinking water wells listed in public records or otherwise known to the applicant within 1 /4 mile of the facility property boundary.		
(m) A brief description of the nature of the business.		
(n) For hazardous debris, a description of the debris category(ies) and contaminant category(ies) to be treated, stored, or disposed of at the facility.		

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
§ 270.14 Contents of part B: General requirements. (a) Part B of the permit application consists of the general information requirements of this section, and the specific information requirements in §§ 270.14 through 270.29 applicable to the facility. The part B information requirements presented in §§270.14 through 270.29 reflect the standards promulgated in 40 CFR 264. These information requirements are necessary in order for EPA to determine compliance with the 264 standards. If owners and operators of HWM facilities can demonstrate that the information prescribed in part B can not be provided to the extent required, the Director may make allowance for submission of such information on a case-by-case basis. Information required in part B shall be submitted to the Director and signed in accordance with requirements in §270.11. Certain technical data, such as design drawings and specifications, and engineering studies shall be certified by a registered professional engineer. For post-closure permits, only the information specified in § 270.28 is required in Part B of the permit application.		
(b) General information requirements. The following information is required for all HWM facilities, except as § 264.1 provides otherwise:	1.0	
(1) A general description of the facility.	1.1 — 1.3; Fig 1-1	
(2) Chemical and physical analyses of the hazardous waste and hazardous debris to be handled at the facility. At a minimum, these analyses shall contain all the information which must be known to treat, store, or dispose of the wastes properly in accordance with 264 of this chapter.	2.0; APP. A.; APP. C TABLE 3-2; APP. B 2.2; 2.3; APP. D	1
(3) A copy of the waste analysis plan required by § 264.13(b) and, if applicable § 264.13(c).	3.0; 2.0	
(4) A description of the security procedures and equipment required by § 264.14, or a justification demonstrating the reasons for requesting a waiver of this requirement.	4.0	✓
(5) A copy of the general inspection schedule required by § 264.15(b) of this part. Include where applicable, as part of the inspection schedule, specific requirements in §§264.174, 264.193(i), 264.195, 264.226, 264.254, 264.273, 264.303, 264.602, 264.1033, 264.1052, 264.1053, 264.1058, 264.1084, 264.1085, 264.1086, and 264.1088 of this part.	5.0	✓
(6) A justification of any request for a waiver(s) of the preparedness and prevention requirements of 264, subpart C.	6.0	✓ DNA

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
(7) A copy of the contingency plan required by 264, subpart D. Note: Include, where applicable, as part of the contingency plan, specific requirements in §§ 264.227, 264.255, and 264.200.	7.0; APP. F APP "H"	✓
(8) A description of procedures, structures, or equipment used at the facility to:	8.0	✓
(i) Prevent hazards in unloading operations (for example, ramps, special forklifts);	8.1	
(ii) Prevent runoff from hazardous waste handling areas to other areas of the facility or environment, or to prevent flooding (for example, berms, dikes, trenches);	8.2	
(iii) Prevent contamination of water supplies;	8.3	
(iv) Mitigate effects of equipment failure and power outages;	8.4	
(v) Prevent undue exposure of personnel to hazardous waste (for example, protective clothing); and	8.5	
(vi) Prevent releases to atmosphere.	8.6	
(9) A description of precautions to prevent accidental ignition or reaction of ignitable, reactive, or incompatible wastes as required to demonstrate compliance with § 264.17 including documentation demonstrating compliance with § 264.17(c).	9.0	✓
(10) Traffic pattern, estimated volume (number, types of vehicles) and control (for example, show turns across traffic lanes, and stacking lanes (if appropriate); describe access road surfacing and load bearing capacity; show traffic control signals).	10.0	✓
(11) Facility location information;	11.0; FIG. 1-1	✓
(i) In order to determine the applicability of the seismic standard [§ 264.18(a)] the owner or operator of a new facility must identify the political jurisdiction (e.g., county, township, or election district) in which the facility is proposed to be located. [Comment: If the county or election district is not listed in appendix VI of 264, no further information is required to demonstrate compliance with § 264.18(a).]	11.1; DNA	DNA

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
(ii) If the facility is proposed to be located in an area listed in appendix VI of 264, the owner or operator shall demonstrate compliance with the seismic standard. This demonstration may be made using either published geologic data or data obtained from field investigations carried out by the applicant. The information provided must be of such quality to be acceptable to geologists experienced in identifying and evaluating seismic activity. The information submitted must show that either:	NA	NA
(A) No faults which have had displacement in Holocene time are present, or no lineations which suggest the presence of a fault (which have displacement in Holocene time) within 3,000 feet of a facility are present, based on data from:		
(1) Published geologic studies,		
(2) Aerial reconnaissance of the area within a five-mile radius from the facility.		
(3) An analysis of aerial photographs covering a 3,000 foot radius of the facility, and		
(4) If needed to clarify the above data, a reconnaissance based on walking portions of the area within 3,000 feet of the facility, or		
(B) If faults (to include lineations) which have had displacement in Holocene time are present within 3,000 feet of a facility, no faults pass with 200 feet of the portions of the facility where treatment, storage, or disposal of hazardous waste will be conducted, based on data from a comprehensive geologic analysis of the site. Unless a site analysis is otherwise conclusive concerning the absence of faults within 200 feet of such portions of the facility data shall be obtained from a subsurface exploration (trenching) of the area within a distance no less than 200 feet from portions of the facility where treatment, storage, or disposal of hazardous waste will be conducted. Such trenching shall be performed in a direction that is perpendicular to known faults (which have had displacement in Holocene time) passing within 3,000 feet of the portions of the facility where treatment, storage, or disposal of hazardous waste will be conducted. Such investigation shall document with supporting maps and other analyses, the location of faults found. [Comment: The Guidance Manual for the Location Standards provides greater detail on the content of each type of seismic investigation and the appropriate conditions under which each approach or a combination of approaches would be used.]		

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
(iii) Owners and operators of all facilities shall provide an identification of whether the facility is located within a 100-year floodplain. This identification must indicate the source of data for such determination and include a copy of the relevant Federal Insurance Administration (FIA) flood map, if used, or the calculations and maps used where an FIA map is not available. Information shall also be provided identifying the 100-year flood level and any other special flooding factors (e.g., wave action) which must be considered in designing, constructing, operating, or maintaining the facility to withstand washout from a 100-year flood. [Comment: Where maps for the National Flood Insurance Program produced by the Federal Insurance Administration (FIA) of the Federal Emergency Management Agency are available, they will normally be determinative of whether a facility is located within or outside of the 100-year floodplain. However, where the FIA map excludes an area (usually areas of the floodplain less than 200 feet in width), these areas must be considered and a determination made as to whether they are in the 100-year floodplain. Where FIA maps are not available for a proposed facility location, the owner or operator must use equivalent mapping techniques to determine whether the facility is within the 100-year floodplain, and if so located, what the 100-year flood elevation would be.]	11.2 ; FIG. 11-1	NOT IN FLOODPLAIN NA
(iv) Owners and operators of facilities located in the 100-year floodplain must provide the following information:	NA	
(A) Engineering analysis to indicate the various hydrodynamic and hydrostatic forces expected to result at the site as consequence of a 100-year flood.		
(B) Structural or other engineering studies showing the design of operational units (e.g., tanks, incinerators) and flood protection devices (e.g., floodwalls, dikes) at the facility and how these will prevent washout.		
(C) If applicable, and in lieu of paragraphs (b)(11)(iv) (A) and (B) of this section, a detailed description of procedures to be followed to remove hazardous waste to safety before the facility is flooded, including:		
(1) Timing of such movement relative to flood levels, including estimated time to move the waste, to show that such movement can be completed before floodwaters reach the facility.		

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
(2) A description of the location(s) to which the waste will be moved and demonstration that those facilities will be eligible to receive hazardous waste in accordance with the regulations under parts 270, 271, 124, and 264 through 266 of this chapter.	NA	NA
(3) The planned procedures, equipment, and personnel to be used and the means to ensure that such resources will be available in time for use.		
(4) The potential for accidental discharges of the waste during movement.		
(v) Existing facilities NOT in compliance with § 264.18(b) shall provide a plan showing how the facility will be brought into compliance and a schedule for compliance.		
(12) An outline of both the introductory and continuing training programs by owners or operators to prepare persons to operate or maintain the HWM facility in a safe manner as required to demonstrate compliance with § 264.16. A brief description of how training will be designed to meet actual job tasks in accordance with requirements in § 264.16(a)(3).	12.0; 12.1-12.9 APP. I.	③ TECH. REVIEW
(13) A copy of the closure plan and, where applicable, the post-closure plan required by §§ 264.112, 264.118, and 264.197. Include, where applicable, as part of the plans, specific requirements in §§ 264.178, 264.197, 264.228, 264.258, 264.280, 264.310, 264.351, 264.601, and 264.603.	13.0 - 13.11	
(14) For hazardous waste disposal units that have been closed, documentation that notices required under § 264.119 have been filed.	13.9	
(15) The most recent closure cost estimate for the facility prepared in accordance with § 264.142 and a copy of the documentation required to demonstrate financial assurance under § 264.143. For a new facility, a copy of the required documentation may be submitted 60 days prior to the initial receipt of hazardous wastes, if that is later than the submission of the part B.	13.11; NA	NA
(16) Where applicable, the most recent post-closure cost estimate for the facility prepared in accordance with § 264.144 plus a copy of the documentation required to demonstrate financial assurance under § 264.145. For a new facility, a copy of the required documentation may be submitted 60 days prior to the initial receipt of hazardous wastes, if that is later than the submission of the part B.	NA; 13.11	NA

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
(17) Where applicable, a copy of the insurance policy or other documentation which comprises compliance with the requirements of § 264.147. For a new facility, documentation showing the amount of insurance meeting the specification of § 264.147(a) and, if applicable, § 264.147(b), that the owner or operator plans to have in effect before initial receipt of hazardous waste for treatment, storage, or disposal. A request for a variance in the amount of required coverage, for a new or existing facility, may be submitted as specified in § 264.147(c).	13.11; NA	NA
(18) Where appropriate, proof of coverage by a State financial mechanism in compliance with § 264.149 or § 264.150.	13.11; NA	NA
(19) A topographic map showing a distance of 1,000 feet around the facility at a scale of 2.5 centimeters (1 inch) equal to not more than 61.0 meters (200 feet). Contours must be shown on the map. The contour interval must be sufficient to clearly show the pattern of surface water flow in the vicinity of and from each operational unit of the facility. For example, contours with an interval of 1.5 meters (5 feet), if relief is greater than 6.1 meters (20 feet), or an interval of 0.6 meters (2 feet), if relief is less than 6.1 meters (20 feet). Owners and operators of HWM facilities located in mountainous areas should use large contour intervals to adequately show topographic profiles of facilities. The map shall clearly show the following:	14.1; FIG. 14-1	✓
(i) Map scale and date.	FIG. 14-1	
(ii) 100-year floodplain area.	FIG. 11-1	
(iii) Surface waters including intermittent streams.	FIG. 14-1	
(iv) Surrounding land uses (residential, commercial, agricultural, recreational).	FIG. 1-4	
(v) A wind rose (i.e., prevailing windspeed and direction).	FIG. 14-2	
(vi) Orientation of the map (north arrow).	FIG. 14-1	
(vii) Legal boundaries of the HWM facility site.	FIG. 1-1;	
(viii) Access control (fences, gates).	FIG. 1-1; FIG. 14-1	
(ix) Injection and withdrawal wells both onsite and offsite.	FIG. 1-2	

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
(x) Buildings; treatment, storage, or disposal operations; or other structure (recreation areas, runoff control systems, access and internal roads, storm, sanitary, and process sewerage systems, loading and unloading areas, fire control facilities, etc.)	FIG. 1-1; FIG. 1-3; FIG. 14-1; FIG. 15-1	✓
(xi) Barriers for drainage or flood control.		
(xii) Location of operational units within the HWM facility site, where hazardous waste is (or will be) treated, stored, or disposed (include equipment cleanup areas). NOTE: For large HWM facilities the Agency will allow the use of other scales on a case-by-case basis.	FIG. 16-1; FIG. 15-1 FIG. 1-3	
(20) Applicants may be required to submit such information as may be necessary to enable the Regional Administrator to carry out his duties under other Federal laws as required in § 270.3 of this part.	NA	NA
(21) For land disposal facilities, if a case-by-case extension has been approved under § 268.5 or a petition has been approved under § 268.6, a copy of the notice of approval for the extension or petition is required.	NA	NA
(22) A summary of the pre-application meeting, along with a list of attendees and their addresses, and copies of any written comments or materials submitted at the meeting, as required under § 124.31(c).	NA	NA
(c) Additional information requirements. The following additional information regarding protection of groundwater is required from owners or operators of hazardous waste facilities containing a regulated unit except as provided in § 264.90(b) of this chapter:	NOT SUBMITTED NA	NA §270.10(c)
(1) A summary of the groundwater monitoring data obtained during the interim status period under §§ 265.90 through 265.94, where applicable.		
(2) Identification of the uppermost aquifer and aquifers hydraulically interconnected beneath the facility property, including groundwater flow direction and rate, and the basis for such identification (i.e., the information obtained from hydrogeologic investigations of the facility area).		

QUARTERS COVERED BY REPORTS ON NON-COMPLIANCE BY MAJOR DISCHARGERS—Continued

	[Date for completion of reports]
October, November, and December.	[1] February 28

[1] Reports must be made available to the public for inspection and copying on this date.

[48 FR 14228, Apr. 1, 1983, as amended at 48 FR 30113, June 30, 1983]

§ 270.6 References.

(a) When used in part 270 of this chapter, the following publications are incorporated by reference: (See 40 CFR 260.11 References)

(b) The references listed in paragraph (a) of this section are also available for inspection at the Office of the Federal Register, 1100 L Street, NW., Washington, DC 20408. These incorporations by reference were approved by the Director of the Federal Register. These materials are incorporated as they exist on the date of approval and a notice of any change in these materials will be published in the FEDERAL REGISTER.

[48 FR 14228, Apr. 1, 1983, as amended at 48 FR 30113, June 30, 1983; 52 FR 8073, Mar. 16, 1987; 58 FR 46051, Aug. 31, 1993]

Subpart B—Permit Application

§ 270.10 General application requirements.

(a) *Permit application.* Any person who is required to have a permit (including new applicants and permittees with expiring permits) shall complete, sign, and submit an application to the Director as described in this section and §§ 270.70 through 270.73. Persons currently authorized with interim status shall apply for permits when required by the Director. Persons covered by RCRA permits by rule (§ 270.60), need not apply. Procedures for applications, issuance and administration of emergency permits are found exclusively in § 270.61. Procedures for application, issuance and administration of research, development, and demonstration permits are found exclusively in § 270.65.

(b) *Who applies?* When a facility or activity is owned by one person but is operated by another person, it is the operator's duty to obtain a permit, except that the owner must also sign the permit application.

(c) *Completeness.* The Director shall not issue a permit before receiving a complete application for a permit except for permits by rule, or emergency permits. An application for a permit is complete when the Director receives an application form and any supplemental information which are completed to his satisfaction. An application for a permit is complete notwithstanding the failure of the owner or operator to submit the exposure information described in paragraph (j) of this section. The Director may deny a permit for the active life of a hazardous waste management facility or unit before receiving a complete application for a permit.

(d) *Information requirements.* All applicants for RCRA permits shall provide information set forth in § 270.13 and applicable sections in §§ 270.14 through 270.29 to the Director, using the application form provided by the Director.

(e) *Existing HWM facilities and interim status qualifications.* (1) Owners and operators of existing hazardous waste management facilities or of hazardous waste management facilities in existence on the effective date of statutory or regulatory amendments under the act that render the facility subject to the requirement to have a RCRA permit must submit part A of their permit application no later than:

(i) Six months after the date of publication of regulations which first require them to comply with the standards set forth in 40 CFR part 265 or 266, or

(ii) Thirty days after the date they first become subject to the standards set forth in 40 CFR part 265 or 266, whichever first occurs.

(iii) For generators generating greater than 100 kilograms but less than 1000 kilograms of hazardous waste in a calendar month and treats, stores, or disposes of these wastes on-site, by March 24, 1987.

NOTE: For facilities which must comply with part 265 because they handle a waste listed in EPA's May 19, 1980, part 261 regulations (45 FR 33006 *et seq.*), the deadline for submitting an application is November 19, 1980. Where other existing facilities must begin in complying with part 265 or 266 at a later date because of revisions to part 260, 261, 265, or 266, the Administrator will specify

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
(3) On the topographic map required under paragraph (b)(19) of this section, a delineation of the waste management area, the property boundary, the proposed ''point of compliance'' as defined under § 264.95, the proposed location of groundwater monitoring wells as required under § 264.97, and, to the extent possible, the information required in paragraph (c)(2) of this section.	NOT SUBMITTED	NA
(4) A description of any plume of contamination that has entered the ground water from a regulated unit at the time that the application was submitted that:		
(i) Delineates the extent of the plume on the topographic map required under paragraph (b)(19) of this section;		
(ii) Identifies the concentration of each appendix IX, of 264 of this chapter, constituent throughout the plume or identifies the maximum concentrations of each appendix IX constituent in the plume.		
(5) Detailed plans and an engineering report describing the proposed ground water monitoring program to be implemented to meet the requirements of § 264.97.		
(6) If the presence of hazardous constituents has not been detected in the ground water at the time of permit application, the owner or operator must submit sufficient information, supporting data, and analyses to establish a detection monitoring program which meets the requirements of § 264.98. This submission must address the following items specified under § 264.98:		
(i) A proposed list of indicator parameters, waste constituents, or reaction products that can provide a reliable indication of the presence of hazardous constituents in the ground water;		
(ii) A proposed groundwater monitoring system;		
(iii) Background values for each proposed monitoring parameter or constituent, or procedures to calculate such values; and		
(iv) A description of proposed sampling, analysis and statistical comparison procedures to be utilized in evaluating groundwater monitoring data.		

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
(7) If the presence of hazardous constituents has been detected in the ground water at the point of compliance at the time of the permit application, the owner or operator must submit sufficient information, supporting data, and analyses to establish a compliance monitoring program which meets the requirements of § 264.99. Except as provided in § 264.98(h)(5), the owner or operator must also submit an engineering feasibility plan for a corrective action program necessary to meet the requirements of § 264.100, unless the owner or operator obtains written authorization in advance from the Regional Administrator to submit a proposed permit schedule for submittal of such a plan. To demonstrate compliance with § 264.99, the owner or operator must address the following items:	NOT SUBMITTED	NA §270.10(c)
(i) A description of the wastes previously handled at the facility;		
(ii) A characterization of the contaminated ground water, including concentrations of hazardous constituents;		
(iii) A list of hazardous constituents for which compliance monitoring will be undertaken in accordance with §§ 264.97 and 264.99;		
(iv) Proposed concentration limits for each hazardous constituent, based on the criteria set forth in § 264.94(a), including a justification for establishing any alternate concentration limits;		
(v) Detailed plans and an engineering report describing the proposed groundwater monitoring system, in accordance with the requirements of § 264.97; and		
(vi) A description of proposed sampling, analysis and statistical comparison procedures to be utilized in evaluating groundwater monitoring data.		

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
(8) If hazardous constituents have been measured in the ground water which exceed the concentration limits established under § 264.94 Table 1, or if ground water monitoring conducted at the time of permit application under §§ 265.90 through 265.94 at the waste boundary indicates the presence of hazardous constituents from the facility in ground water over background concentrations, the owner or operator must submit sufficient information, supporting data, and analyses to establish a corrective action program which meets the requirements of § 264.100. However, an owner or operator is not required to submit information to establish a corrective action program if he demonstrates to the Regional Administrator that alternate concentration limits will protect human health and the environment after considering the criteria listed in § 264.94(b). An owner or operator who is not required to establish a corrective action program for this reason must instead submit sufficient information to establish a compliance monitoring program which meets the requirements of § 264.99 and paragraph (c)(6) of this section. To demonstrate compliance with § 264.100, the owner or operator must address, at a minimum, the following items:	NOT SUBMITTED	NA §270.10(c)
(i) A characterization of the contaminated ground water, including concentrations of hazardous constituents;		
(ii) The concentration limit for each hazardous constituent found in the ground water as set forth in § 264.94;		
(iii) Detailed plans and an engineering report describing the corrective action to be taken; and		
(iv) A description of how the groundwater monitoring program will demonstrate the adequacy of the corrective action.		
(v) The permit may contain a schedule for submittal of the information required in paragraphs (c)(8) (iii) and (iv) provided the owner or operator obtains written authorization from the Regional Administrator prior to submittal of the complete permit application.		
(d) Information requirements for solid waste management units.	16.0; 1.3	
(1) The following information is required for each solid waste management unit at a facility seeking a permit:	16.0; TABLE 16-1 16.2	

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
(i) The location of the unit on the topographic map required under paragraph (b)(19) of this section.	FIG. 1-3; 16.0	
(ii) Designation of type of unit.	16.0; 16.2	
(iii) General dimensions and structural description (supply any available drawings).	16.0; FIG. 16-1	
(iv) When the unit was operated.	16.0; 16.2	
(v) Specification of all wastes that have been managed at the unit, to the extent available.	? 16.2	
(2) The owner or operator of any facility containing one or more solid waste management units must submit all available information pertaining to any release of hazardous wastes or hazardous constituents from such unit or units.	16.1 – 16.2	RFI
(3) The owner/operator must conduct and provide the results of sampling and analysis of ground water, land surface, and subsurface strata, surface water, or air, which may include the installation of wells, where the Director ascertains it is necessary to complete a RCRA Facility Assessment that will determine if a more complete investigation is necessary.	16.1	RFI

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
§ 270.15 SPECIFIC PART B INFORMATION REQUIREMENTS FOR CONTAINERS. Except as otherwise provided in § 264.170, owners or operators of facilities that store containers of hazardous waste must provide the following additional information:	15.0	
(a) A description of the containment system to demonstrate compliance with § 264.175. Show at least the following: (SEE ATTACHMENT 1)	15.2	
(1) Basic design parameters, dimensions, and materials of construction.	15.2.1; FIG 15-1	APP. E
(2) How the design promotes drainage or how containers are kept from contact with standing liquids in the containment system. See § 264.175(b)(3)	15.2.2; ? 8.2	
(3) Capacity of the containment system relative to the number and volume of containers to be stored.	15.2.3; TAB. 15-1	
(4) Provisions for preventing or managing runon.	15.2.4	
(5) How accumulated liquids can be analyzed and removed to prevent overflow.	15.2.5; § 12.	
(b) For storage areas that store containers holding wastes that do not contain free liquids, a demonstration of compliance with § 264.175(c), including:	~~N/A~~ 15.3	
(1) Test procedures and results or other documentation or information to show that the wastes do not contain free liquids; and → CAFO ASSUMES LIQ. TREATS A/A		
(2) A description of how the storage area is designed or operated to drain and remove liquids or how containers are kept from contact with standing liquids.	15.2.3 15.2.3	
(c) Sketches, drawings, or data demonstrating compliance with § 264.176 (location of buffer zone and containers holding ignitable or reactive wastes) and § 264.177(c) (location of incompatible wastes), where applicable. [15m FROM PL + PROT. FROM INCOMP. WASTE]	15.4; 15.4.1; ~~15.4.2~~ FIG 15-1; APP E	
(d) Where incompatible wastes are stored or otherwise managed in containers, a description of the procedures used to ensure compliance with §§ 264.177 (a) and (b), and 264.17 (b) and (c).	15.4.2	X
(e) Information on air emission control equipment as required in § 270.27.		

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
§ 270.27 SPECIFIC PART B INFORMATION REQUIREMENTS FOR AIR EMISSION CONTROLS FOR TANKS, SURFACE IMPOUNDMENTS, AND CONTAINERS.		
(a) Except as otherwise provided in 40 CFR 264.1, owners and operators of tanks, surface impoundments, or containers that use air emission controls in accordance with the requirements of 264, subpart CC shall provide the following additional information:	NA	
(1) Documentation for each floating roof cover installed on a tank subject to 40 CFR 264.1084(d)(1) or 40 CFR 264.1084(d)(2) that includes information prepared by the owner or operator or provided by the cover manufacturer or vendor describing the cover design, and certification by the owner or operator that the cover meets the applicable design specifications as listed in 40 CFR 264.1084(e)(1) or 40 CFR 264.1084(f)(1).	NA	NA
(2) Identification of each container area subject to the requirements of 40 CFR 264, subpart CC and certification by the owner or operator that the requirements of this subpart are met.		
(3) Documentation for each enclosure used to control air pollutant emissions from tanks or containers in accordance with the requirements of 40 CFR 264.1084(d)(5) or 40 CFR 264.1086(e)(1)(ii) that includes records for the most recent set of calculations and measurements performed by the owner or operator to verify that the enclosure meets the criteria of a permanent total enclosure as specified in ''Procedure T—Criteria for and Verification of a Permanent or Temporary Total Enclosure'' under 40 CFR 52.741, appendix B.		NA
(4) Documentation for each floating membrane cover installed on a surface impoundment in accordance with the requirements of 40 CFR 264.1085(c) that includes information prepared by the owner or operator or provided by the cover manufacturer or vendor describing the cover design, and certification by the owner or operator that the cover meets the specifications listed in 40 CFR 264.1085(c)(1).	NA	NA
(5) Documentation for each closed-vent system and control device installed in accordance with the requirements of 40 CFR 264.1087 that includes design and performance information as specified in § 270.24 (c) and (d) of this part.		NA

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
(6) An emission monitoring plan for both Method 21 in 40 CFR part 60, appendix A and control device monitoring methods. This plan shall include the following information: monitoring point(s), monitoring methods for control devices, monitoring frequency, procedures for documenting exceedances, and procedures for mitigating noncompliances.	DNA	
(7) When an owner or operator of a facility subject to 40 CFR part 265, subpart CC cannot comply with 40 CFR 264, subpart CC by the date of permit issuance, the schedule of implementation required under 40 CFR 265.1082.		

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
§ 270.16 SPECIFIC PART B INFORMATION REQUIREMENTS FOR TANK SYSTEMS. Except as otherwise provided in § 264.190, owners and operators of facilities that use tanks to store or treat hazardous waste must provide the following additional information:	DNA	
(a) A written assessment that is reviewed and certified by an independent, qualified, registered professional engineer as to the structural integrity and suitability for handling hazardous waste of each tank system, as required under §§ 264.191 and 264.192;		
(b) Dimensions and capacity of each tank;		
(c) Description of feed systems, safety cutoff, bypass systems, and pressure controls (e.g., vents);		
(d) A diagram of piping, instrumentation, and process flow for each tank system;		
(e) A description of materials and equipment used to provide external corrosion protection, as required under § 264.192(a)(3)(ii);		
(f) For new tank systems, a detailed description of how the tank system(s) will be installed in compliance with § 264.192 (b), (c), (d), and (e);		
(g) Detailed plans and description of how the secondary containment system for each tank system is or will be designed, constructed, and operated to meet the requirements of § 264.193 (a), (b), (c), (d), (e), and (f);		
(h) For tank systems for which a variance from the requirements of § 264.193 is sought (as provided by §§ 264.193(g)):		
(1) Detailed plans and engineering and hydrogeologic reports, as appropriate, describing alternate design and operating practices that will, in conjunction with location aspects, prevent the migration of any hazardous waste or hazardous constituents into the ground water or surface water during the life of the facility, or		
(2) A detailed assessment of the substantial present or potential hazards posed to human health or the environment should a release enter the environment.		
(i) Description of controls and practices to prevent spills and overflows, as required under § 264.194(b); and		

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
(j) For tank systems in which ignitable, reactive, or incompatible wastes are to be stored or treated, a description of how operating procedures and tank system and facility design will achieve compliance with the requirements of §§ 264.198 and 264.199.	DNA	
(k) Information on air emission control equipment as required in § 270.27. [51 FR 25486, July 14, 1986; 51 FR 29431, Aug. 15, 1986; 59 FR 62952, Dec. 6, 1994]		

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
§ 270.17 SPECIFIC PART B INFORMATION REQUIREMENTS FOR SURFACE IMPOUNDMENTS. Except as otherwise provided in § 264.1, owners and operators of facilities that store, treat or dispose of hazardous waste in surface impoundments must provide the following additional information:	DNA	
(a) A list of the hazardous wastes placed or to be placed in each surface impoundment;		
(b) Detailed plans and an engineering report describing how the surface impoundment is designed and is or will be constructed, operated, and maintained to meet the requirements of §§ 264.19, 264.221, 264.222, and 264.223 of this chapter, addressing the following items:		
(1) The liner system (except for an existing portion of a surface impoundment). If an exemption from the requirement for a liner is sought as provided by § 264.221(b), submit detailed plans and engineering and hydrogeologic reports, as appropriate, describing alternate design and operating practices that will, in conjunction with location aspects, prevent the migration of any hazardous constituents into the ground water or surface water at any future time;		
(2) The double liner and leak (leachate) detection, collection, and removal system, if the surface impoundment must meet the requirements of § 264.221(c) of this chapter. If an exemption from the requirements for double liners and a leak detection, collection, and removal system or alternative design is sought as provided by § 264.221 (d), (e), or (f) of this chapter, submit appropriate information;		
(3) If the leak detection system is located in a saturated zone, submit detailed plans and an engineering report explaining the leak detection system design and operation, and the location of the saturated zone in relation to the leak detection system;		
(4) The construction quality assurance (CQA) plan if required under § 264.19 of this chapter;		
(5) Proposed action leakage rate, with rationale, if required under § 264.222 of this chapter, and response action plan, if required under § 264.223 of this chapter;		
(6) Prevention of overtopping; and		
(7) Structural integrity of dikes;		

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
(c) A description of how each surface impoundment, including the double liner system, leak detection system, cover system, and appurtenances for control of overtopping, will be inspected in order to meet the requirements of § 264.226(a), (b), and (d) of this chapter. This information must be included in the inspection plan submitted under § 270.14(b)(5);	DNA	
(d) A certification by a qualified engineer which attests to the structural integrity of each dike, as required under § 264.226(c). For new units, the owner or operator must submit a statement by a qualified engineer that he will provide such a certification upon completion of construction in accordance with the plans and specifications;		
(e) A description of the procedure to be used for removing a surface impoundment from service, as required under § 264.227(b) and (c). This information should be included in the contingency plan submitted under § 270.14(b)(7);		
(f) A description of how hazardous waste residues and contaminated materials will be removed from the unit at closure, as required under § 264.228(a)(1). For any wastes not to be removed from the unit upon closure, the owner or operator must submit detailed plans and an engineering report describing how § 264.228(a)(2) and (b) will be complied with. This information should be included in the closure plan and, where applicable, the post-closure plan submitted under § 270.14(b)(13);		
(g) If ignitable or reactive wastes are to be placed in a surface impoundment, an explanation of how § 264.229 will be complied with;		
(h) If incompatible wastes, or incompatible wastes and materials will be placed in a surface impoundment, an explanation of how § 264.230 will be complied with.		
(i) A waste management plan for EPA Hazardous Waste Nos. F020, F021, F022, F023, F026, and F027 describing how the surface impoundment is or will be designed, constructed, operated, and maintained to meet the requirements of § 264.231. This submission must address the following items as specified in § 264.231:		
(1) The volume, physical, and chemical characteristics of the wastes, including their potential to migrate through soil or to volatilize or escape into the atmosphere;		
(2) The attenuative properties of underlying and surrounding soils or other materials;		

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
(3) The mobilizing properties of other materials co-disposed with these wastes; and	DNA	
(4) The effectiveness of additional treatment, design, or monitoring techniques.		
(j) Information on air emission control equipment as required in § 270.27. [48 FR 14228, Apr. 1, 1983, as amended at 50 FR 2006, Jan. 14, 1985; 50 FR 28752, July 15, 1985; 57 FR 3495, Jan. 29, 1992; 59 FR 62952, Dec. 6, 1994]		

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
§ 270.18 SPECIFIC PART B INFORMATION REQUIREMENTS FOR WASTE PILES. Except as otherwise provided in § 264.1, owners and operators of facilities that store or treat hazardous waste in waste piles must provide the following additional information:	DNA	
(a) A list of hazardous wastes placed or to be placed in each waste pile;		
(b) If an exemption is sought to § 264.251 and subpart F of 264 as provided by § 264.250(c) or § 264.90(2), an explanation of how the standards of § 264.250(c) will be complied with or detailed plans and an engineering report describing how the requirements of § 264.90(b)(2) will be met.		
(c) Detailed plans and an engineering report describing how the waste pile is designed and is or will be constructed, operated, and maintained to meet the requirements of §§ 264.19, 264.251, 264.252, and 264.253 of this chapter, addressing the following items:		
(1)(i) The liner system (except for an existing portion of a waste pile), if the waste pile must meet the requirements of § 264.251(a) of this chapter. If an exemption from the requirement for a liner is sought as provided by § 264.251(b) of this chapter, submit detailed plans, and engineering and hydrogeological reports, as appropriate, describing alternate designs and operating practices that will, in conjunction with location aspects, prevent the migration of any hazardous constituents into the ground water or surface water at any future time;		
(ii) The double liner and leak (leachate) detection, collection, and removal system, if the waste pile must meet the requirements of § 264.251(c) of this chapter. If an exemption from the requirements for double liners and a leak detection, collection, and removal system or alternative design is sought as provided by § 264.251(d), (e), or (f) of this chapter, submit appropriate information;		
(iii) If the leak detection system is located in a saturated zone, submit detailed plans and an engineering report explaining the leak detection system design and operation, and the location of the saturated zone in relation to the leak detection system;		
(iv) The construction quality assurance (CQA) plan if required under § 264.19 of this chapter;		

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
(v) Proposed action leakage rate, with rationale, if required under § 264.252 of this chapter, and response action plan, if required under § 264.253 of this chapter;	DNA	
(2) Control of runon;		
(3) Control of runoff;		
(4) Management of collection and holding units associated with runon and runoff control systems; and		
(5) Control of wind dispersal of particulate matter, where applicable;		
(d) A description of how each waste pile, including the double liner system, leachate collection and removal system, leak detection system, cover system, and appurtenances for control of runon and runoff, will be inspected in order to meet the requirements of § 264.254(a), (b), and (c) of this chapter. This information must be included in the inspection plan submitted under § 270.14(b)(5);		
(e) If treatment is carried out on or in the pile, details of the process and equipment used, and the nature and quality of the residuals;		
(f) If ignitable or reactive wastes are to be placed in a waste pile, an explanation of how the requirements of § 264.256 will be complied with;		
(g) If incompatible wastes, or incompatible wastes and materials will be place in a waste pile, an explanation of how § 264.257 will be complied with;		
(h) A description of how hazardous waste residues and contaminated materials will be removed from the waste pile at closure, as required under § 264.258(a). For any waste not to be removed from the waste pile upon closure, the owner or operator must submit detailed plans and an engineering report describing how § 264.310 (a) and (b) will be complied with. This information should be included in the closure plan and, where applicable, the post-closure plan submitted under § 270.14(b)(13).		
(i) A waste management plan for EPA Hazardous Waste Nos. F020, F021, F022, F023, F026, and F027 describing how a waste pile that is not enclosed (as defined in § 264.250(c)) is or will be designed, constructed, operated, and maintained to meet the requirements of § 264.259. This submission must address the following items as specified in § 264.259:		

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
(1) The volume, physical, and chemical characteristics of the wastes to be disposed in the waste pile, including their potential to migrate through soil or to volatilize or escape into the atmosphere;	DNA	
(2) The attenuative properties of underlying and surrounding soils or other materials;		
(3) The mobilizing properties of other materials co-disposed with these wastes; and		
(4) The effectiveness of additional treatment, design, or monitoring techniques. [48 FR 14228, Apr. 1, 1983, as amended at 50 FR 2006, Jan. 14, 1985; 50 FR 28752, July 15, 1985; 57 FR 3496, Jan. 29, 1992]		

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
§ 270.19 SPECIFIC PART B INFORMATION REQUIREMENTS FOR INCINERATORS. Except as § 264.340 of this chapter provides otherwise, owners and operators of facilities that incinerate hazardous waste must fulfill the requirements of (a), (b), or (c) of this section.	DNA	
(a) When seeking an exemption under § 264.340 (b) or (c) of this chapter (Ignitable, corrosive, or reactive wastes only):		
(1) Documentation that the waste is listed as a hazardous waste in part 261, subpart D of this chapter, solely because it is ignitable (Hazard Code I) or corrosive (Hazard Code C) or both; or		
(2) Documentation that the waste is listed as a hazardous waste in part 261, subpart D of this chapter, solely because it is reactive (Hazard Code R) for characteristics other than those listed in § 261.23(a) (4) and (5) of this chapter, and will not be burned when other hazardous wastes are present in the combustion zone; or		
(3) Documentation that the waste is a hazardous waste solely because it possesses the characteristic of ignitability, corrosivity, or both, as determined by the tests for characteristics of hazardous waste under part 261, subpart C of this chapter; or		
(4) Documentation that the waste is a hazardous waste solely because it possesses the reactivity characteristics listed in § 261.23(a) (1), (2), (3), (6), (7), or (8) of this chapter, and that it will not be burned when other hazardous wastes are present in the combustion zone; or		
(b) Submit a trial burn plan or the results of a trial burn, including all required determinations, in accordance with § 270.62; or		
(c) In lieu of a trial burn, the applicant may submit the following information:		
(1) An analysis of each waste or mixture of wastes to be burned including:		
(i) Heat value of the waste in the form and composition in which it will be burned.		
(ii) Viscosity (if applicable), or description of physical form of the waste.		

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
(iii) An identification of any hazardous organic constituents listed in part 261, appendix VIII, of this chapter, which are present in the waste to be burned, except that the applicant need not analyze for constituents listed in part 261, appendix VIII, of this chapter which would reasonably not be expected to be found in the waste. The constituents excluded from analysis must be identified and the basis for their exclusion stated. The waste analysis must rely on analytical techniques specified in ''Test Methods for Evaluating Solid Waste, Physical/Chemical Methods,'' EPA Publication SW-846, as incorporated by reference in § 260.11 of this chapter and § 270.6, or their equivalent.	DNA	
(iv) An approximate quantification of the hazardous constituents identified in the waste, within the precision produced by the analytical methods specified in ''Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, '' EPA Publication SW-846, as incorporated by reference in § 260.11 of this chapter and § 270.6.		
(v) A quantification of those hazardous constituents in the waste which may be designated as POHC's based on data submitted from other trial or operational burns which demonstrate compliance with the performance standards in § 264.343 of this chapter.		
(2) A detailed engineering description of the incinerator, including:		
(i) Manufacturer's name and model number of incinerator.		
(ii) Type of incinerator.		
(iii) Linear dimension of incinerator unit including cross sectional area of combustion chamber.		
(iv) Description of auxiliary fuel system (type/feed).		
(v) Capacity of prime mover.		
(vi) Description of automatic waste feed cutoff system(s).		
(vii) Stack gas monitoring and pollution control monitoring system.		
(viii) Nozzle and burner design.		
(ix) Construction materials.		

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
(x) Location and description of temperature, pressure, and flow indicating devices and control devices.	DNA	
(3) A description and analysis of the waste to be burned compared with the waste for which data from operational or trial burns are provided to support the contention that a trial burn is not needed. The data should include those items listed in paragraph (c)(1) of this section. This analysis should specify the POHC's which the applicant has identified in the waste for which a permit is sought, and any differences from the POHC's in the waste for which burn data are provided.		
(4) The design and operating conditions of the incinerator unit to be used, compared with that for which comparative burn data are available.		
(5) A description of the results submitted from any previously conducted trial burn(s) including:		
(i) Sampling and analysis techniques used to calculate performance standards in § 264.343 of this chapter,		
(ii) Methods and results of monitoring temperatures, waste feed rates, carbon monoxide, and an appropriate indicator of combustion gas velocity (including a statement concerning the precision and accuracy of this measurement),		
(6) The expected incinerator operation information to demonstrate compliance with §§ 264.343 and 264.345 of this chapter including:		
(i) Expected carbon monoxide (CO) level in the stack exhaust gas.		
(ii) Waste feed rate.		
(iii) Combustion zone temperature.		
(iv) Indication of combustion gas velocity.		
(v) Expected stack gas volume, flow rate, and temperature.		
(vi) Computed residence time for waste in the combustion zone.		
(vii) Expected hydrochloric acid removal efficiency.		
(viii) Expected fugitive emissions and their control procedures.		

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
(ix) Proposed waste feed cutoff limits based on the identified significant operating parameters.	DoA	
(7) Such supplemental information as the Director finds necessary to achieve the purposes of this paragraph.		
(8) Waste analysis data, including that submitted in paragraph (c)(1) of this section, sufficient to allow the Director to specify as permit Principal Organic Hazardous Constituents (permit POHC's) those constituents for which destruction and removal efficiencies will be required.		
(d) The Director shall approve a permit application without a trial burn if he finds that:		
(1) The wastes are sufficiently similar; and		
(2) The incinerator units are sufficiently similar, and the data from other trial burns are adequate to specify (under § 264.345 of this chapter) operating conditions that will ensure that the performance standards in § 264.343 of this chapter will be met by the incinerator.		

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
§ 270.20 SPECIFIC PART B INFORMATION REQUIREMENTS FOR LAND TREATMENT FACILITIES. Except as otherwise provided in § 264.1, owners and operators of facilities that use land treatment to dispose of hazardous waste must provide the following additional information:	DNA	
(a) A description of plans to conduct a treatment demonstration as required under § 264.272. The description must include the following information;		
(1) The wastes for which the demonstration will be made and the potential hazardous constituents in the waste;		
(2) The data sources to be used to make the demonstration (e.g., literature, laboratory data, field data, or operating data);		
(3) Any specific laboratory or field test that will be conducted, including:		
(i) The type of test (e.g., column leaching, degradation);		
(ii) Materials and methods, including analytical procedures;		
(iii) Expected time for completion;		
(iv) Characteristics of the unit that will be simulated in the demonstration, including treatment zone characteristics, climatic conditions, and operating practices.		
(b) A description of a land treatment program, as required under § 264.271. This information must be submitted with the plans for the treatment demonstration, and updated following the treatment demonstration. The land treatment program must address the following items:		
(1) The wastes to be land treated;		
(2) Design measures and operating practices necessary to maximize treatment in accordance with § 264.273(a) including:		
(i) Waste application method and rate;		
(ii) Measures to control soil pH;		
(iii) Enhancement of microbial or chemical reactions;		
(iv) Control of moisture content;		
(3) Provisions for unsaturated zone monitoring, including:		

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
(i) Sampling equipment, procedures, and frequency;	N/A	
(ii) Procedures for selecting sampling locations;		
(iii) Analytical procedures;		
(iv) Chain of custody control;		
(v) Procedures for establishing background values;		
(vi) Statistical methods for interpreting results;		
(vii) The justification for any hazardous constituents recommended for selection as principal hazardous constituents, in accordance with the criteria for such selection in § 264.278(a);		
(4) A list of hazardous constituents reasonably expected to be in, or derived from, the wastes to be land treated based on waste analysis performed pursuant to § 264.13;		
(5) The proposed dimensions of the treatment zone;		
(c) A description of how the unit is or will be designed, constructed, operated, and maintained in order to meet the requirements of § 264.273. This submission must address the following items:		
(1) Control of runon;		
(2) Collection and control of runoff;		
(3) Minimization of runoff of hazardous constituents from the treatment zone;		
(4) Management of collection and holding facilities associated with runon and runoff control systems;		
(5) Periodic inspection of the unit. This information should be included in the inspection plan submitted under § 270.14(b)(5);		
(6) Control of wind dispersal of particulate matter, if applicable;		
(d) If food-chain crops are to be grown in or on the treatment zone of the land treatment unit, a description of how the demonstration required under § 264.276(a) will be conducted including:		

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
(1) Characteristics of the food-chain crop for which the demonstration will be made.	DNA	
(2) Characteristics of the waste, treatment zone, and waste application method and rate to be used in the demonstration;		
(3) Procedures for crop growth, sample collection, sample analysis, and data evaluation;		
(4) Characteristics of the comparison crop including the location and conditions under which it was or will be grown;		
(e) If food-chain crops are to be grown, and cadmium is present in the land- treated waste, a description of how the requirements of § 264.276(b) will be complied with;		
(f) A description of the vegetative cover to be applied to closed portions of the facility, and a plan for maintaining such cover during the post-closure care period, as required under §§ 264.280(a)(8) and 264.280(c)(2). This information should be included in the closure plan and, where applicable, the post-closure care plan submitted under § 270.14(b)(13);		
(g) If ignitable or reactive wastes will be placed in or on the treatment zone, an explanation of how the requirements of § 264.281 will be complied with;		
(h) If incompatible wastes, or incompatible wastes and materials, will be placed in or on the same treatment zone, an explanation of how § 264.282 will be complied with.		
(i) A waste management plan for EPA Hazardous Waste Nos. FO20, FO21, FO22, FO23, FO26, and FO27 describing how a land treatment facility is or will be designed, constructed, operated, and maintained to meet the requirements of § 264.283. This submission must address the following items as specified in § 264.283:		
(1) The volume, physical, and chemical characteristics of the wastes, including their potential to migrate through soil or to volatilize or escape into the atmosphere;		
(2) The attentuative properties of underlying and surrounding soils or other materials;		
(3) The mobilizing properties of other materials co-disposed with these wastes; and		

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
(4) The effectiveness of additional treatment, design, or monitoring techniques.	DNA	

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
§ 270.21 SPECIFIC PART B INFORMATION REQUIREMENTS FOR LANDFILLS. Except as otherwise provided in § 264.1, owners and operators of facilities that dispose of hazardous waste in landfills must provide the following additional information:	DNA	
(a) A list of the hazardous wastes placed or to be placed in each landfill or landfill cell;		
(b) Detailed plans and an engineering report describing how the landfill is designed and is or will be constructed, operated, and maintained to meet the requirements of §§ 264.19, 264.301, 264.302, and 264.303 of this chapter, addressing the following items:		
(1)(i) The liner system (except for an existing portion of a landfill), if the landfill must meet the requirements of § 264.301(a) of this chapter. If an exemption from the requirement for a liner is sought as provided by § 264.301(b) of this chapter, submit detailed plans, and engineering and hydrogeological reports, as appropriate, describing alternate designs and operating practices that will, in conjunction with location aspects, prevent the migration of any hazardous constituents into the ground water or surface water at any future time;		
(ii) The double liner and leak (leachate) detection, collection, and removal system, if the landfill must meet the requirements of § 264.301(c) of this chapter. If an exemption from the requirements for double liners and a leak detection, collection, and removal system or alternative design is sought as provided by § 264.301(d), (e), or (f) of this chapter, submit appropriate information;		
(iii) If the leak detection system is located in a saturated zone, submit detailed plans and an engineering report explaining the leak detection system design and operation, and the location of the saturated zone in relation to the leak detection system;		
(iv) The construction quality assurance (CQA) plan if required under § 264.19 of this chapter; (v) Proposed action leakage rate, with rationale, if required under § 264.302 of this chapter, and response action plan, if required under § 264.303 of this chapter;		
(2) Control of runon;		
(3) Control of runoff;		

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
(4) Management of collection and holding facilities associated with runon and runoff control systems; and	DNA	
(5) Control of wind dispersal of particulate matter, where applicable;		
(c) A description of how each landfill, including the double liner system, leachate collection and removal system, leak detection system, cover system, and appurtenances for control of runon and runoff, will be inspected in order to meet the requirements of § 264.303(a), (b), and (c) of this chapter. This information must be included in the inspection plan submitted under § 270.14(b)(5);		
(d) A description of how each landfill, including the liner and cover systems, will be inspected in order to meet the requirements of § 264.303 (a) and (b). This information should be included in the inspection plan submitted under § 270.14(b)(5).		
(e) Detailed plans and an engineering report describing the final cover which will be applied to each landfill or landfill cell at closure in accordance with § 264.310(a), and a description of how each landfill will be maintained and monitored after closure in accordance with §264.310(b). This information should be included in the closure and post-closure plans submitted under § 270.14(b)(13).		
(f) If ignitable or reactive wastes will be landfilled, an explanation of how the standards of § 264.312 will be complied with;		
(g) If incompatible wastes, or incompatible wastes and materials will be landfilled, an explanation of how § 264.313 will be complied with;		
(h) If bulk or noncontainerized liquid waste or wastes containing free liquids is to be landfilled prior to May 8, 1985, an explanation of how the requirements of § 264.314(a) will be complied with;		
(i) If containers of hazardous waste are to be landfilled, an explanation of how the requirements of § 264.315 or § 264.316, as applicable, will be complied with.		
(j) A waste management plan for EPA Hazardous Waste Nos. F020, F021, F022, F023, F026, and F027 describing how a landfill is or will be designed, constructed, operated, and maintained to meet the requirements of § 264.317. This submission must address the following items as specified in § 264.317:		

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
(1) The volume, physical, and chemical characteristics of the wastes, including their potential to migrate through soil or to volatilize or escape into the atmosphere;	DNA	
(2) The attenuative properties of underlying and surrounding soils or other materials;		
(3) The mobilizing properties of other materials co-disposed with these wastes;		
(4) The effectiveness of additional treatment, design, or monitoring techniques.		

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
§ 270.22 SPECIFIC PART B INFORMATION REQUIREMENTS FOR BOILERS AND INDUSTRIAL FURNACES BURNING HAZARDOUS WASTE.	DNA	
(a) Trial burns—		
(1) General. Except as provided below, owners and operators that are subject to the standards to control organic emissions provided by § 266.104 of this chapter, standards to control particulate matter provided by § 266.105 of this chapter, standards to control metals emissions provided by § 266.106 of this chapter, or standards to control hydrogen chloride or chlorine gas emissions provided by § 266.107 of this chapter must conduct a trial burn to demonstrate conformance with those standards and must submit a trial burn plan or the results of a trial burn, including all required determinations, in accordance with § 270.66.		
(i) A trial burn to demonstrate conformance with a particular emission standard may be waived under provisions of §§ 266.104 through 266.107 of this chapter and paragraphs (a)(2) through (a)(5) of this section; and		
(ii) The owner or operator may submit data in lieu of a trial burn, as prescribed in paragraph (a)(6) of this section.		
(2) Waiver of trial burn for DRE—		
(i) Boilers operated under special operating requirements. When seeking to be permitted under §§ 266.104(a)(4) and 266.110 of this chapter that automatically waive the DRE trial burn, the owner or operator of a boiler must submit documentation that the boiler operates under the special operating requirements provided by § 266.110 of this chapter.		
(ii) Boilers and industrial furnaces burning low risk waste. When seeking to be permitted under the provisions for low risk waste provided by §§ 266.104(a)(5) and 266.109(a) of this chapter that waive the DRE trial burn, the owner or operator must submit:		
(A) Documentation that the device is operated in conformance with the requirements of § 266.109(a) (1) of this chapter.		

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
(B) Results of analyses of each waste to be burned, documenting the concentrations of nonmetal compounds listed in appendix VIII of part 261 of this chapter, except for those constituents that would reasonably not be expected to be in the waste. The constituents excluded from analysis must be identified and the basis for their exclusion explained. The analysis must rely on analytical techniques specified in Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (incorporated by reference, see § 260.11).	DNA	
(C) Documentation of hazardous waste firing rates and calculations of reasonable, worst case emission rates of each constituent identified in paragraph (a)(2)(ii)(B) of this section using procedures provided by § 266.109(a)(2)(ii) of this chapter.		
(D) Results of emissions dispersion modeling for emissions identified in paragraphs (a)(2)(ii)(C) of this section using modeling procedures prescribed by § 266.106(h) of this chapter. The Director will review the emission modeling conducted by the applicant to determine conformance with these procedures. The Director will either approve the modeling or determine that alternate or supplementary modeling is appropriate.		
(E) Documentation that the maximum annual average ground level concentration of each constituent identified in paragraph (a)(2)(ii)(B) of this section quantified in conformance with paragraph (a)(2)(ii)(D) of this section does not exceed the allowable ambient level established in appendices IV or V of part 266. The acceptable ambient concentration for emitted constituents for which a specific Reference Air Concentration has not been established in appendix IV or Risk Specific Dose has not been established in appendix V is 0.1 micrograms per cubic meter, as noted in the footnote to appendix IV.		
(3) Waiver of trial burn for metals. When seeking to be permitted under the Tier I (or adjusted Tier I) metals feed rate screening limits provided by § 266.106 (b) and (e) of this chapter that control metals emissions without requiring a trial burn, the owner or operator must submit:		
(i) Documentation of the feed rate of hazardous waste, other fuels, and industrial furnace feed stocks;		
(ii) Documentation of the concentration of each metal controlled by § 266.106 (b) or (e) of this chapter in the hazardous waste, other fuels, and industrial furnace feedstocks, and calculations of the total feed rate of each metal;		

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
(iii) Documentation of how the applicant will ensure that the Tier I feed rate screening limits provided by § 266.106 (b) or (e) of this chapter will not be exceeded during the averaging period provided by that paragraph;	DNA	
(iv) Documentation to support the determination of the terrain adjusted effective stack height, good engineering practice stack height, terrain type, and land use as provided by § 266.106 (b)(3) through (b)(5) of this chapter;		
(v) Documentation of compliance with the provisions of § 266.106(b)(6), if applicable, for facilities with multiple stacks;		
(vi) Documentation that the facility does not fail the criteria provided by § 266.106(b)(7) for eligibility to comply with the screening limits; and (vii) Proposed sampling and metals analysis plan for the hazardous waste, other fuels, and industrial furnace feed stocks.		
(4) Waiver of trial burn for particulate matter. When seeking to be permitted under the low risk waste provisions of § 266.109(b) which waives the particulate standard (and trial burn to demonstrate conformance with the particulate standard), applicants must submit documentation supporting conformance with paragraphs (a)(2)(ii) and (a)(3) of this section.		
(5) Waiver of trial burn for HCl and Cl2. When seeking to be permitted under the Tier I (or adjusted Tier I) feed rate screening limits for total chloride and chlorine provided by § 266.107 (b)(1) and (e) of this chapter that control emissions of hydrogen chloride (HCl) and chlorine gas (Cl2) without requiring a trial burn, the owner or operator must submit:		
(i) Documentation of the feed rate of hazardous waste, other fuels, and industrial furnace feed stocks;		
(ii) Documentation of the levels of total chloride and chlorine in the hazardous waste, other fuels, and industrial furnace feedstocks, and calculations of the total feed rate of total chloride and chlorine;		
(iii) Documentation of how the applicant will ensure that the Tier I (or adjusted Tier I) feed rate screening limits provided by § 266.107 (b)(1) or (e) of this chapter will not be exceeded during the averaging period provided by that paragraph;		

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
(iv) Documentation to support the determination of the terrain adjusted effective stack height, good engineering practice stack height, terrain type, and land use as provided by § 266.107(b)(3) of this chapter;	DNA	
(v) Documentation of compliance with the provisions of § 266.107(b)(4), if applicable, for facilities with multiple stacks;		
(vi) Documentation that the facility does not fail the criteria provided by § 266.107(b)(3) for eligibility to comply with the screening limits; and		
(vii) Proposed sampling and analysis plan for total chloride and chlorine for the hazardous waste, other fuels, and industrial furnace feedstocks.		
(6) Data in lieu of trial burn. The owner or operator may seek an exemption from the trial burn requirements to demonstrate conformance with §§ 266.104 through 266.107 of this chapter and § 270.66 by providing the information required by § 270.66 from previous compliance testing of the device in conformance with § 266.103 of this chapter, or from compliance testing or trial or operational burns of similar boilers or industrial furnaces burning similar hazardous wastes under similar conditions. If data from a similar device is used to support a trial burn waiver, the design and operating information required by § 270.66 must be provided for both the similar device and the device to which the data is to be applied, and a comparison of the design and operating information must be provided. The Director shall approve a permit application without a trial burn if he finds that the hazardous wastes are sufficiently similar, the devices are sufficiently similar, the operating conditions are sufficiently similar, and the data from other compliance tests, trial burns, or operational burns are adequate to specify (under § 266.102 of this chapter) operating conditions that will ensure conformance with § 266.102(c) of this chapter. In addition, the following information shall be submitted:		
(i) For a waiver from any trial burn:		
(A) A description and analysis of the hazardous waste to be burned compared with the hazardous waste for which data from compliance testing, or operational or trial burns are provided to support the contention that a trial burn is not needed;		

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
(B) The design and operating conditions of the boiler or industrial furnace to be used, compared with that for which comparative burn data are available; and (C) Such supplemental information as the Director finds necessary to achieve the purposes of this paragraph.	DNA	
(ii) For a waiver of the DRE trial burn, the basis for selection of POHCs used in the other trial or operational burns which demonstrate compliance with the DRE performance standard in § 266.104(a) of this chapter. This analysis should specify the constituents in appendix VIII, part 261 of this chapter, that the applicant has identified in the hazardous waste for which a permit is sought, and any differences from the POHCs in the hazardous waste for which burn data are provided.		
(b) Alternative HC limit for industrial furnaces with organic matter in raw materials. Owners and operators of industrial furnaces requesting an alternative HC limit under § 266.104(f) of this chapter shall submit the following information at a minimum:		
(1) Documentation that the furnace is designed and operated to minimize HC emissions from fuels and raw materials;		
(2) Documentation of the proposed baseline flue gas HC (and CO) concentration, including data on HC (and CO) levels during tests when the facility produced normal products under normal operating conditions from normal raw materials while burning normal fuels and when not burning hazardous waste;		
(3) Test burn protocol to confirm the baseline HC (and CO) level including information on the type and flow rate of all feedstreams, point of introduction of all feedstreams, total organic carbon content (or other appropriate measure of organic content) of all nonfuel feedstreams, and operating conditions that affect combustion of fuel(s) and destruction of hydrocarbon emissions from nonfuel sources;		
(4) Trial burn plan to: (i) Demonstrate that flue gas HC (and CO) concentrations when burning hazardous waste do not exceed the baseline HC (and CO) level; and (ii) Identify the types and concentrations of organic compounds listed in appendix VIII, part 261 of this chapter, that are emitted when burning hazardous waste in conformance with procedures prescribed by the Director;		

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
(5) Implementation plan to monitor over time changes in the operation of the facility that could reduce the baseline HC level and procedures to periodically confirm the baseline HC level; and (6) Such other information as the Director finds necessary to achieve the purposes of this paragraph.	DNA	
(c) Alternative metals implementation approach. When seeking to be permitted under an alternative metals implementation approach under § 266.106(f) of this chapter, the owner or operator must submit documentation specifying how the approach ensures compliance with the metals emissions standards of § 266.106(c) or (d) and how the approach can be effectively implemented and monitored. Further, the owner or operator shall provide such other information that the Director finds necessary to achieve the purposes of this paragraph.		
(d) Automatic waste feed cutoff system. Owners and operators shall submit information describing the automatic waste feed cutoff system, including any pre-alarm systems that may be used.		
(e) Direct transfer. Owners and operators that use direct transfer operations to feed hazardous waste from transport vehicles (containers, as defined in § 266.111 of this chapter) directly to the boiler or industrial furnace shall submit information supporting conformance with the standards for direct transfer provided by § 266.111 of this chapter.		
(f) Residues. Owners and operators that claim that their residues are excluded from regulation under the provisions of § 266.112 of this chapter must submit information adequate to demonstrate conformance with those provisions.		

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
§ 270.23 SPECIFIC PART B INFORMATION REQUIREMENTS FOR MISCELLANEOUS UNITS. Except as otherwise provided in § 264.600, owners and operators of facilities that treat, store, or dispose of hazardous waste in miscellaneous units must provide the following additional information:	DNA	
(a) A detailed description of the unit being used or proposed for use, including the following:		
(1) Physical characteristics, materials of construction, and dimensions of the unit;		
(2) Detailed plans and engineering reports describing how the unit will be located, designed, constructed, operated, maintained, monitored, inspected, and closed to comply with the requirements of §§ 264.601 and 264.602; and (3) For disposal units, a detailed description of the plans to comply with the post-closure requirements of § 264.603.		
(b) Detailed hydrologic, geologic, and meteorologic assessments and land use maps for the region surrounding the site that address and ensure compliance of the unit with each factor in the environmental performance standards of § 264.601. If the applicant can demonstrate that he does not violate the environmental performance standards of § 264.601 and the Director agrees with such demonstration, preliminary hydrologic, geologic, and meteorologic assessments will suffice.		
(c) Information on the potential pathways of exposure of humans or environmental receptors to hazardous waste or hazardous constituents and on the potential magnitude and nature of such exposures.		
(d) For any treatment unit, a report on a demonstration of the effectiveness of the treatment based on laboratory or field data.		
(e) Any additional information determined by the Director to be necessary for evaluation of compliance of the unit with the environmental performance standards of § 264.601.		

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
§ 270.24 SPECIFIC PART B INFORMATION REQUIREMENTS FOR PROCESS VENTS. Except as otherwise provided in § 264.1, owners and operators of facilities that have process vents to which subpart AA of 264 applies must provide the following additional information:	DNA	
(a) For facilities that cannot install a closed-vent system and control device to comply with the provisions of 40 CFR 264 subpart AA on the effective date that the facility becomes subject to the provisions of 40 CFR 264 or 265 subpart AA, an implementation schedule as specified in § 264.1033(a)(2).		
(b) Documentation of compliance with the process vent standards in § 264.1032, including:		
(1) Information and data identifying all affected process vents, annual throughput and operating hours of each affected unit, estimated emission rates for each affected vent and for the overall facility (i.e., the total emissions for all affected vents at the facility), and the approximate location within the facility of each affected unit (e.g., identify the hazardous waste management units on a facility plot plan).		
(2) Information and data supporting estimates of vent emissions and emission reduction achieved by add-on control devices based on engineering calculations or source tests. For the purpose of determining compliance, estimates of vent emissions and emission reductions must be made using operating parameter values (e.g., temperatures, flow rates, or concentrations) that represent the conditions that exist when the waste management unit is operating at the highest load or capacity level reasonably expected to occur.		
(3) Information and data used to determine whether or not a process vent is subject to the requirements of § 264.1032.		
(c) Where an owner or operator applies for permission to use a control device other than a thermal vapor incinerator, catalytic vapor incinerator, flare, boiler, process heater, condenser, or carbon adsorption system to comply with the requirements of § 264.1032, and chooses to use test data to determine the organic removal efficiency or the total organic compound concentration achieved by the control device, a performance test plan as specified in § 264.1035(b)(3).		
(d) Documentation of compliance with § 264.1033, including:		

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
(1) A list of all information references and sources used in preparing the documentation.	DNA	
(2) Records, including the dates, of each compliance test required by § 264.1033(k).		
(3) A design analysis, specifications, drawings, schematics, and piping and instrumentation diagrams based on the appropriate sections of "APTI Course 415: Control of Gaseous Emissions" (incorporated by reference as specified in § 260.11) or other engineering texts acceptable to the Regional Administrator that present basic control device design information. The design analysis shall address the vent stream characteristics and control device operation parameters as specified in § 264.1035 (b)(4)(iii).		
(4) A statement signed and dated by the owner or operator certifying that the operating parameters used in the design analysis reasonably represent the conditions that exist when the hazardous waste management unit is or would be operating at the highest load or capacity level reasonably expected to occur.		
(5) A statement signed and dated by the owner or operator certifying that the control device is designed to operate at an efficiency of 95 weight percent or greater unless the total organic emission limits of § 264.1032(a) for affected process vents at the facility can be attained by a control device involving vapor recovery at an efficiency less than 95 weight percent. [55 FR 25518, June 21, 1990, as amended at 56 FR 19290, Apr. 26, 1991]		

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
§ 270.25 SPECIFIC PART B INFORMATION REQUIREMENTS FOR EQUIPMENT. Except as otherwise provided in § 264.1, owners and operators of facilities that have equipment to which subpart BB of 264 applies must provide the following additional information:	DNA	
(a) For each piece of equipment to which subpart BB of 264 applies:		
(1) Equipment identification number and hazardous waste management unit identification.		
(2) Approximate locations within the facility (e.g., identify the hazardous waste management unit on a facility plot plan).		
(3) Type of equipment (e.g., a pump or pipeline valve).		
(4) Percent by weight total organics in the hazardous waste stream at the equipment.		
(5) Hazardous waste state at the equipment (e.g., gas/vapor or liquid).		
(6) Method of compliance with the standard (e.g., ''monthly leak detection and repair'' or ''equipped with dual mechanical seals'').		
(b) For facilities that cannot install a closed-vent system and control device to comply with the provisions of 40 CFR 264 subpart BB on the effective date that the facility becomes subject to the provisions of 40 CFR 264 or 265 subpart BB, an implementation schedule as specified in § 264.1033(a)(2).		
(c) Where an owner or operator applies for permission to use a control device other than a thermal vapor incinerator, catalytic vapor incinerator, flare, boiler, process heater, condenser, or carbon adsorption system and chooses to use test data to determine the organic removal efficiency or the total organic compound concentration achieved by the control device, a performance test plan as specified in § 264.1035(b)(3).		
(d) Documentation that demonstrates compliance with the equipment standards in §§ 264.1052 to 264.1059. This documentation shall contain the records required under § 264.1064. The Regional Administrator may request further documentation before deciding if compliance has been demonstrated.		
(e) Documentation to demonstrate compliance with § 264.1060 shall include the following information:		

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
(1) A list of all information references and sources used in preparing the documentation.	DNA	
(2) Records, including the dates, of each compliance test required by § 264.1033(j).		
(3) A design analysis, specifications, drawings, schematics, and piping and instrumentation diagrams based on the appropriate sections of "ATPI Course 415: Control of Gaseous Emissions" (incorporated by reference as specified in § 260.11) or other engineering texts acceptable to the Regional Administrator that present basic control device design information. The design analysis shall address the vent stream characteristics and control device operation parameters as specified in § 264.1035(b)(4)(iii).		
(4) A statement signed and dated by the owner or operator certifying that the operating parameters used in the design analysis reasonably represent the conditions that exist when the hazardous waste management unit is operating at the highest load or capacity level reasonably expected to occur.		
(5) A statement signed and dated by the owner or operator certifying that the control device is designed to operate at an efficiency of 95 weight percent or greater. [55 FR 25518, June 21, 1990, as amended at 56 FR 19290, Apr. 26, 1991]		

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
§ 270.26 SPECIAL PART B INFORMATION REQUIREMENTS FOR DRIP PADS. Except as otherwise provided by § 264.1 of this chapter, owners and operators of hazardous waste treatment, storage, or disposal facilities that collect, store, or treat hazardous waste on drip pads must provide the following additional information:	DNA	
(a) A list of hazardous wastes placed or to be placed on each drip pad.		
(b) If an exemption is sought to subpart F of 264 of this chapter, as provided by § 264.90 of this chapter, detailed plans and an engineering report describing how the requirements of § 264.90(b)(2) of this chapter will be met.		
(c) Detailed plans and an engineering report describing how the drip pad is or will be designed, constructed, operated and maintained to meet the requirements of § 264.573 of this chapter, including the as-built drawings and specifications. This submission must address the following items as specified in § 264.571 of this chapter:		
(1) The design characteristics of the drip pad;		
(2) The liner system;		
(3) The leakage detection system, including the leak detection system and how it is designed to detect the failure of the drip pad or the presence of any releases of hazardous waste or accumulated liquid at the earliest practicable time;		
(4) Practices designed to maintain drip pads;		
(5) The associated collection system;		
(6) Control of runon to the drip pad;		
(7) Control of runoff from the drip pad;		
(8) The interval at which drippage and other materials will be removed from the associated collection system and a statement demonstrating that the interval will be sufficient to prevent overflow onto the drip pad;		
(9) Procedures for cleaning the drip pad at least once every seven days to ensure the removal of any accumulated residues of waste or other materials, including but not limited to rinsing, washing with detergents or other appropriate solvents, or steam cleaning and provisions for documenting the date, time, and cleaning procedure used each time the pad is cleaned.		

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
(10) Operating practices and procedures that will be followed to ensure that tracking of hazardous waste or waste constituents off the drip pad due to activities by personnel or equipment is minimized;	DNA	
(11) Procedures for ensuring that, after removal from the treatment vessel, treated wood from pressure and non-pressure processes is held on the drip pad until drippage has ceased, including recordkeeping practices;		
(12) Provisions for ensuring that collection and holding units associated with the runon and runoff control systems are emptied or otherwise managed as soon as possible after storms to maintain design capacity of the system;		
(13) If treatment is carried out on the drip pad, details of the process equipment used, and the nature and quality of the residuals.		
(14) A description of how each drip pad, including appurtenances for control of runon and runoff, will be inspected in order to meet the requirements of § 264.573 of this chapter. This information should be included in the inspection plan submitted under § 270.14(b)(5) of this part.		
(15) A certification signed by an independent qualified, registered professional engineer, stating that the drip pad design meets the requirements of paragraphs (a) through (f) of § 264.573 of this chapter.		
(16) A description of how hazardous waste residues and contaminated materials will be removed from the drip pad at closure, as required under § 264.575(a) of this chapter. For any waste not to be removed from the drip pad upon closure, the owner or operator must submit detailed plans and an engineering report describing how § 264.310 (a) and (b) of this chapter will be complied with. This information should be included in the closure plan and, where applicable, the post-closure plan submitted under § 270.14(b)(13). [55 FR 50489, Dec. 6, 1990. Pre-designated and amended at 56 FR 30198, July 1, 1991]		

40 CFR CITATIONS	LOCATION IN APPLICATION	COMMENTS
§ 270.28 PART B INFORMATION REQUIREMENTS FOR POST-CLOSURE PERMITS. For post-closure permits, the owner or operator is required to submit only the **information specified in §§ 270.14(b)(1), (4), (5), (6), (11), (13), (14), (16), (18) and (19), (c), and (d)**, unless the Regional Administrator determines that additional information from §§ 270.14, 270.16, 270.17, 270.18, 270.20, or 270.21 is necessary. The owner or operator is required to submit the same information when an alternative authority is used in lieu of a post-closure permit as provided in § 270.1(c)(7).		

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40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
§270.10(J) EXPOSURE INFORMATION. (1) After August 8, 1985, any part B permit application submitted by an owner or operator of a facility that stores, treats, or dispose of hazardous waste in a surface impoundment or a landfill must be accompanied by information, reasonably ascertainable by the owner or operator, on the potential for the public to be exposed to hazardous wastes or hazardous constituents through releases related to the unit. At a minimum, such information must address:			
(i) Reasonably foreseeable potential releases from both normal operations and accidents at the unit, including releases associated with transportation to or from the unit;			
(ii) The potential pathways of human exposure to hazardous wastes or constituents resulting from the releases described under paragraph (j)(1)(i) of this section; and			
(iii) The potential magnitude and nature of the human exposure resulting from such releases.			
(2) By August 8, 1985, owners and operators of a landfill or a surface impoundment who have already submitted a part B application must submit the exposure information required in paragraph (j)(1) of this section.			
§ 270.13 CONTENTS OF PART A OF THE PERMIT APPLICATION. Part A of the RCRA application shall include the following information:			
(a) The **activities conducted by the applicant** which require it to obtain a permit under RCRA.			
(b) **Name, mailing address, and location,** including latitude and longitude of the facility for which the application is submitted.			
(c) Up to four **SIC codes** which best reflect the principal products or services provided by the facility.			

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
(d) The **operator's name, address, telephone number,** ownership status, and status as Federal, State, private, public, or other entity.			
(e) The **name, address, and phone number** of the owner of the facility.			
(f) Whether the facility is **located on Indian lands.**			
(g) An indication of **whether the facility is new or existing** and whether it is a first or revised application.			
(h) For **existing facilities,**			
(1) a scale drawing of the facility showing the location of all past, present, and future treatment, storage, and disposal areas; and			
(2) photographs of the facility clearly delineating all existing structures; existing treatment, storage, and disposal areas; and sites of future treatment, storage, and disposal areas.			
(i) A **description of the processes** to be used for treating, storing, and disposing of hazardous waste, and the design capacity of these items.			
(j) A **specification of the hazardous wastes** listed or designated under 40 CFR 261 to be treated, stored, or disposed of at the facility, an estimate of the quantity of such wastes to be treated, stored, or disposed annually, and a general description of the processes to be used for such wastes.	§261		
(k) A **listing of all permits** or construction approvals received or applied for under any of the following programs:			
(1) Hazardous Waste Management program under RCRA.			
(2) UIC program under the SWDA.			
(3) NPDES program under the CWA.			
(4) Prevention of Significant Deterioration (PSD) program under the Clean Air Act.			
(5) Nonattainment program under the Clean Air Act.			

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
(6) National Emission Standards for Hazardous Pollutants (NESHAPS) preconstruction approval under the Clean Air Act.			
(7) Ocean dumping permits under the Marine Protection Research and Sancturies Act.			
(8) Dredge or fill permits under section 404 of the CWA.			
(9) Other relevant environmental permits, including State permits.			
(l) A **topographic map** (or other map if a topographic map is unavailable) extending one mile beyond the property boundaries of the source, depicting the facility and each of its intake and discharge structures; each of its hazardous waste treatment, storage, or disposal facilities; each well where fluids from the facility are injected underground; and those wells, springs, other surface water bodies, and drinking water wells listed in public records or otherwise known to the applicant within 1 /4 mile of the facility property boundary.			
(m) A brief description of the **nature of the business**.			
(n) For hazardous debris, a **description of** the debris category(ies) and contaminant category(ies) to be treated, stored, or disposed of at the facility.			

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
§ 270.14 Contents of part B: General requirements. (a) Part B of the permit application consists of the **general information requirements** of this section, and the **specific information requirements** in §§ 270.14 through 270.29 applicable to the facility. The part B information requirements presented in §§ 270.14 through 270.29 reflect the standards promulgated in 40 CFR 264. These information requirements are necessary in order for EPA to determine compliance with the 264 standards. If owners and operators of HWM facilities can demonstrate that the information prescribed in part B can not be provided to the extent required, the Director may make allowance for submission of such information on a case-by-case basis. Information required in part B shall be submitted to the Director and signed in accordance with requirements in § 270.11. Certain technical data, such as design drawings and specifications, and engineering studies shall be certified by a registered professional engineer. For post-closure permits, only the information specified in § 270.28 is required in Part B of the permit application.	§§ 270.14 thru 270.29		
(b) **General information requirements**. The following information is required for all HWM facilities, except as §264.1 provides otherwise:	§264.1		
(1) A **general description of the facility**.			
(2) **Chemical and physical analyses of** the hazardous waste and hazardous debris to be handled at the facility. At a minimum, these analyses shall contain all the information which must be known to treat, store, or dispose of the wastes properly in accordance with 264 of this chapter.			
(3) A copy of the **waste analysis plan** required by §264.13(b) and, if applicable §264.13(c).	§264.13(b); §264.13(c)		
(4) A description of the **security procedures** and equipment required by §264.14, or a justification demonstrating the reasons for requesting a waiver of this requirement.	§264.14		

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
(5) A copy of the **general inspection schedule** required by §264.15(b) of this part. Include where applicable, as part of the inspection schedule, specific requirements in §§264.174, 264.193(i), 264.195, 264.226, 264.254, 264.273, 264.303, 264.602, 264.1033, 264.1052, 264.1053, 264.1058, 264.1084, 264.1085, 264.1086, and 264.1088 of this part.	§264.15(b)		
(6) A justification of any request for a **waiver(s) of the preparedness and prevention** requirements of 264, subpart C.	§264 subpart C		
(7) A copy of the **contingency plan** required by 264, subpart D. Note: Include, where applicable, as part of the contingency plan, specific requirements in §§264.227, 264.255, and 264.200.	§264 subpart D, §264.227; §264.255, & §264.200		
(8) A **description of** procedures, structures, or equipment used at the facility to:			
(i) Prevent hazards in unloading operations (for example, ramps, special forklifts);			
(ii) Prevent runoff from hazardous waste handling areas to other areas of the facility or environment, or to prevent flooding (for example, berms, dikes, trenches);			
(iii) Prevent contamination of water supplies;			
(iv) Mitigate effects of equipment failure and power outages;			
(v) Prevent undue exposure of personnel to hazardous waste (for example, protective clothing); and			
(vi) Prevent releases to atmosphere.			
(9) A description of **precautions to prevent accidental ignition or reaction** of ignitable, reactive, or incompatible wastes as required to demonstrate compliance with §264.17 including documentation demonstrating compliance with §264.17(c).	§264.17		
(10) **Traffic pattern,** estimated volume (number, types of vehicles) and control (for example, show turns across traffic lanes, and stacking lanes (if appropriate); describe access road surfacing and load bearing capacity; show traffic control signals).			
(11) **Facility location information;**			

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
(i) In order to determine the applicability of the seismic standard [§264.18(a)] the owner or operator of a new facility must identify the political jurisdiction (e.g., county, township, or election district) in which the facility is proposed to be located. [Comment: If the county or election district is not listed in appendix VI of 264, no further information is required to demonstrate compliance with §264.18(a).]	§264.18(a)		
(ii) If the facility is proposed to be located in an area listed in appendix VI of 264, the owner or operator shall demonstrate compliance with the seismic standard. This demonstration may be made using either published geologic data or data obtained from field investigations carried out by the applicant. The information provided must be of such quality to be acceptable to geologists experienced in identifying and evaluating seismic activity. The information submitted must show that either:	§264 appendix VI		
(A) No faults which have had displacement in Holocene time are present, or no lineations which suggest the presence of a fault (which have displacement in Holocene time) within 3,000 feet of a facility are present, based on data from:			
(1) Published geologic studies,			
(2) Aerial reconnaissance of the area within a five-mile radius from the facility.			
(3) An analysis of aerial photographs covering a 3,000 foot radius of the facility, and			
(4) If needed to clarify the above data, a reconnaissance based on walking portions of the area within 3,000 feet of the facility, or			

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
(B) If faults (to include lineations) which have had displacement in Holocene time are present within 3,000 feet of a facility, no faults pass with 200 feet of the portions of the facility where treatment, storage, or disposal of hazardous waste will be conducted, based on data from a comprehensive geologic analysis of the site. Unless a site analysis is otherwise conclusive concerning the absence of faults within 200 feet of such portions of the facility data shall be obtained from a subsurface exploration (trenching) of the area within a distance no less than 200 feet from portions of the facility where treatment, storage, or disposal of hazardous waste will be conducted. Such trenching shall be performed in a direction that is perpendicular to known faults (which have had displacement in Holocene time) passing within 3,000 feet of the portions of the facility where treatment, storage, or disposal of hazardous waste will be conducted. Such investigation shall document with supporting maps and other analyses, the location of faults found. [Comment: The Guidance Manual for the Location Standards provides greater detail on the content of each type of seismic investigation and the appropriate conditions under which each approach or a combination of approaches would be used.]			

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
(iii) Owners and operators of all facilities shall provide an identification of whether the facility is located within a 100-year floodplain. This identification must indicate the source of data for such determination and include a copy of the relevant Federal Insurance Administration (FIA) flood map, if used, or the calculations and maps used where an FIA map is not available. Information shall also be provided identifying the 100-year flood level and any other special flooding factors (e.g., wave action) which must be considered in designing, constructing, operating, or maintaining the facility to withstand washout from a 100-year flood. [Comment: Where maps for the National Flood Insurance Program produced by the Federal Insurance Administration (FIA) of the Federal Emergency Management Agency are available, they will normally be determinative of whether a facility is located within or outside of the 100-year floodplain. However, where the FIA map excludes an area (usually areas of the floodplain less than 200 feet in width), these areas must be considered and a determination made as to whether they are in the 100-year floodplain. Where FIA maps are not available for a proposed facility location, the owner or operator must use equivalent mapping techniques to determine whether the facility is within the 100-year floodplain, and if so located, what the 100-year flood elevation would be.]			
(iv) Owners and operators of facilities located in the 100-year floodplain must provide the following information:			
(A) Engineering analysis to indicate the various hydrodynamic and hydrostatic forces expected to result at the site as consequence of a 100-year flood.			
(B) Structural or other engineering studies showing the design of operational units (e.g., tanks, incinerators) and flood protection devices (e.g., floodwalls, dikes) at the facility and how these will prevent washout.			

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
(C) If applicable, and in lieu of paragraphs (b)(11)(iv)(A) and (B) of this section, a detailed description of procedures to be followed to remove hazardous waste to safety before the facility is flooded, including:			
(1) Timing of such movement relative to flood levels, including estimated time to move the waste, to show that such movement can be completed before floodwaters reach the facility.			
(2) A description of the location(s) to which the waste will be moved and demonstration that those facilities will be eligible to receive hazardous waste in accordance with the regulations under parts 270, 271, 124, and 264 through 266 of this chapter.	§§270, 271, 124, §§ 264 thru 266		
(3) The planned procedures, equipment, and personnel to be used and the means to ensure that such resources will be available in time for use.			
(4) The potential for accidental discharges of the waste during movement.			
(v) Existing facilities NOT in compliance with §264.18(b) shall provide a plan showing how the facility will be brought into compliance and a schedule for compliance.	§264.18(b)		
(12) An **outline of both the introductory and continuing training programs** by owners or operators to prepare persons to operate or maintain the HWM facility in a safe manner as required to demonstrate compliance with §264.16. A brief description of how training will be designed to meet actual job tasks in accordance with requirements in §264.16(a)(3).	§264.16		
(13) A **copy of the closure plan** and, where applicable, the **post-closure plan** required by §§264.112, 264.118, and 264.197. Include, where applicable, as part of the plans, specific requirements in §§264.178, 264.197, 264.228, 264.258, 264.280, 264.310, 264.351, 264.601, and 264.603.	§§264.112, 264.118, & 264.197		
(14) For hazardous waste disposal units that have been closed, **documentation that notices** required under §264.119 have been filed.	§264.119		

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
(15) The **most recent closure cost estimate** for the facility prepared in accordance with §264.142 and a copy of the documentation required to demonstrate financial assurance under §264.143. For a new facility, a copy of the required documentation may be submitted 60 days prior to the initial receipt of hazardous wastes, if that is later than the submission of the part B.	§264.142; §264.143.		
(16) Where applicable, the **most recent post-closure cost estimate** for the facility prepared in accordance with §264.144 plus a copy of the documentation required to demonstrate financial assurance under §264.145. For a new facility, a copy of the required documentation may be submitted 60 days prior to the initial receipt of hazardous wastes, if that is later than the submission of the part B.	§264.144; §264.145		
(17) Where applicable, a **copy of the insurance policy** or other documentation which comprises compliance with the requirements of §264.147. For a new facility, documentation showing the amount of insurance meeting the specification of §264.147(a) and, if applicable, §264.147(b), that the owner or operator plans to have in effect before initial receipt of hazardous waste for treatment, storage, or disposal. A request for a variance in the amount of required coverage, for a new or existing facility, may be submitted as specified in §264.147(c).	§264.147		
(18) Where appropriate, **proof of coverage** by a State financial mechanism in compliance with §264.149 or §264.150.	§264.149 or §264.150		

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
(19) A **topographic map** showing a distance of 1,000 feet around the facility at a scale of 2.5 centimeters (1 inch) equal to not more than 61.0 meters (200 feet). Contours must be shown on the map. The contour interval must be sufficient to clearly show the pattern of surface water flow in the vicinity of and from each operational unit of the facility. For example, contours with an interval of 1.5 meters (5 feet), if relief is greater than 6.1 meters (20 feet), or an interval of 0.6 meters (2 feet), if relief is less than 6.1 meters (20 feet). Owners and operators of HWM facilities located in mountainous areas should use large contour intervals to adequately show topographic profiles of facilities. The map shall clearly show the following:			
(i) Map scale and date.			
(ii) 100-year floodplain area.			
(iii) Surface waters including intermittent streams.			
(iv) Surrounding land uses (residential, commercial, agricultural, recreational).			
(v) A wind rose (i.e., prevailing windspeed and direction).			
(vi) Orientation of the map (north arrow).			
(vii) Legal boundaries of the HWM facility site.			
(viii) Access control (fences, gates).			
(ix) Injection and withdrawal wells both onsite and offsite.			
(x) Buildings; treatment, storage, or disposal operations; or other structure (recreation areas, runoff control systems, access and internal roads, storm, sanitary, and process sewerage systems, loading and unloading areas, fire control facilities, etc.)			
(xi) Barriers for drainage or flood control.			
(xii) Location of operational units within the HWM facility site, where hazardous waste is (or will be) treated, stored, or disposed (include equipment cleanup areas). NOTE: For large HWM facilities the Agency will allow the use of other scales on a case-by-case basis.			

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
(20) Applicants may be required to submit such information as may be necessary to enable the Regional Administrator to carry out his duties under other Federal laws as required in § 270.3 of this part.			
(21) For land disposal facilities, if a case-by-case extension has been approved under §268.5 or a petition has been approved under §268.6, a copy of the notice of approval for the extension or petition is required.	§§268.5, 268.6,		
(22) A summary of the pre-application meeting, along with a list of attendees and their addresses, and copies of any written comments or materials submitted at the meeting, as required under §124.31(c).			
(c) **Additional information requirements.** The following additional information regarding protection of groundwater is required from owners or operators of hazardous waste facilities containing a regulated unit except as provided in §264.90(b) of this chapter:	§264.90(b)		
(1) A summary of the groundwater monitoring data obtained during the interim status period under §§265.90 through 265.94, where applicable.	§§265.90 thru 265.94		
(2) Identification of the uppermost aquifer and aquifers hydraulically interconnected beneath the facility property, including groundwater flow direction and rate, and the basis for such identification (i.e., the information obtained from hydrogeologic investigations of the facility area).			
(3) On the topographic map required under paragraph (b)(19) of this section, a delineation of the waste management area, the property boundary, the proposed "point of compliance" as defined under §264.95, the proposed location of groundwater monitoring wells as required under §264.97, and, to the extent possible, the information required in paragraph (c)(2) of this section.	§264.95		
(4) A description of any plume of contamination that has entered the ground water from a regulated unit at the time that the application was submitted that:			
(i) Delineates the extent of the plume on the topographic map required under paragraph (b)(19) of this section;			

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
(ii) Identifies the concentration of each appendix IX, of 264 of this chapter, constituent throughout the plume or identifies the maximum concentrations of each appendix IX constituent in the plume.	§264 appendix IX		
(5) Detailed plans and an engineering report describing the proposed ground water monitoring program to be implemented to meet the requirements of §264.97.	§264.97		
(6) If the presence of hazardous constituents has not been detected in the ground water at the time of permit application, the owner or operator must submit sufficient information, supporting data, and analyses to establish a detection monitoring program which meets the requirements of §264.98. This submission must address the following items specified under §264.98:	§264.98		
(i) A proposed list of indicator parameters, waste constituents, or reaction products that can provide a reliable indication of the presence of hazardous constituents in the ground water;			
(ii) A proposed groundwater monitoring system;			
(iii) Background values for each proposed monitoring parameter or constituent, or procedures to calculate such values; and			
(iv) A description of proposed sampling, analysis and statistical comparison procedures to be utilized in evaluating groundwater monitoring data.			
(7) If the presence of hazardous constituents has been detected in the ground water at the point of compliance at the time of the permit application, the owner or operator must submit sufficient information, supporting data, and analyses to establish a compliance monitoring program which meets the requirements of §264.99. Except as provided in §264.98(h)(5), the owner or operator must also submit an engineering feasibility plan for a corrective action program necessary to meet the requirements of §264.100, unless the owner or operator obtains written authorization in advance from the Regional Administrator to submit a proposed permit schedule for submittal of such a plan. To demonstrate compliance with §264.99, the owner or operator must address the following items:	§264.99 §264.98(h)(5); §264.100		

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
(i) A description of the wastes previously handled at the facility;			
(ii) A characterization of the contaminated ground water, including concentrations of hazardous constituents;			
(iii) A list of hazardous constituents for which compliance monitoring will be undertaken in accordance with §§264.97 and 264.99;	§§264.97 and 264.99		
(iv) Proposed concentration limits for each hazardous constituent, based on the criteria set forth in §264.94(a), including a justification for establishing any alternate concentration limits;	§264.94(a)		
(v) Detailed plans and an engineering report describing the proposed groundwater monitoring system, in accordance with the requirements of §264.97; and	§264.97		
(vi) A description of proposed sampling, analysis and statistical comparison procedures to be utilized in evaluating groundwater monitoring data.			
(8) If hazardous constituents have been measured in the ground water which exceed the concentration limits established under §264.94 Table 1, or if ground water monitoring conducted at the time of permit application under §§265.90 through 265.94 at the waste boundary indicates the presence of hazardous constituents from the facility in ground water over background concentrations, the owner or operator must submit sufficient information, supporting data, and analyses to establish a corrective action program which meets the requirements of §264.100. However, an owner or operator is not required to submit information to establish a corrective action program if he demonstrates to the Regional Administrator that alternate concentration limits will protect human health and the environment after considering the criteria listed in §264.94(b). An owner or operator who is not required to establish a corrective action program for this reason must instead submit sufficient information to establish a compliance monitoring program which meets the requirements of §264.99 and paragraph (c)(6) of this section. To demonstrate compliance with §264.100, the owner or operator must address, at a minimum, the following items:	§264.94 Table 1; §264.100; §264.94(b); §264.99; §§265.90 thru 265.94		

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
(i) A characterization of the contaminated ground water, including concentrations of hazardous constituents;			
(ii) The concentration limit for each hazardous constituent found in the ground water as set forth in §264.94;	§264.94		
(iii) Detailed plans and an engineering report describing the corrective action to be taken; and			
(iv) A description of how the groundwater monitoring program will demonstrate the adequacy of the corrective action.			
(v) The permit may contain a schedule for submittal of the information required in paragraphs (c)(8)(iii) and (iv) provided the owner or operator obtains written authorization from the Regional Administrator prior to submittal of the complete permit application.			
(d) **Information requirements** for solid waste management units.			
(1) The following information is required for each solid waste management unit at a facility seeking a permit:			
(i) The location of the unit on the topographic map required under paragraph (b)(19) of this section.			
(ii) Designation of type of unit.			
(iii) General dimensions and structural description (supply any available drawings).			
(iv) When the unit was operated.			
(v) Specification of all wastes that have been managed at the unit, to the extent available.			
(2) The owner or operator of any facility containing one or more solid waste management units must submit all available information pertaining to any release of hazardous wastes or hazardous constituents from such unit or units.			

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
(3) The owner/operator must conduct and provide the results of sampling and analysis of ground water, land surface, and subsurface strata, surface water, or air, which may include the installation of wells, where the Director ascertains it is necessary to complete a RCRA Facility Assessment that will determine if a more complete investigation is necessary.			
§ 270.15 SPECIFIC PART B INFORMATION REQUIREMENTS FOR CONTAINERS. Except as otherwise provided in §264.170, owners or operators of facilities that store containers of hazardous waste must provide the following additional information:	§264.170		
(a) A **description of the containment system** to demonstrate compliance with §264.175. Show at least the following:	§264.175		
(1) Basic design parameters, dimensions, and materials of construction.			
(2) How the design promotes drainage or how containers are kept from contact with standing liquids in the containment system.			
(3) Capacity of the containment system relative to the number and volume of containers to be stored.			
(4) Provisions for preventing or managing runon.			
(5) How accumulated liquids can be analyzed and removed to prevent overflow.			
(b) For storage areas that store containers holding wastes that do not contain free liquids, a **demonstration of compliance** with §264.175(c), including:	§264.175(c)		
(1) Test procedures and results or other documentation or information to show that the wastes do not contain free liquids; and			
(2) A description of how the storage area is designed or operated to drain and remove liquids or how containers are kept from contact with standing liquids.			

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
(c) **Sketches, drawings, or data** demonstrating compliance with §264.176 (location of buffer zone and containers holding ignitable or reactive wastes) and §264.177(c) (location of incompatible wastes), where applicable.	§264.176; §264.177(c)		
(d) Where incompatible wastes are stored or otherwise **managed in containers**, a description of the procedures used to ensure compliance with §§264.177(a) and (b), and 264.17(b) and (c).	§§264.177(a)&(b)§§§ 264.17(b)&(c)		
(e) Information on **air emission control equipment** as required in § 270.27.	§ 270.27		
§ 270.16 SPECIFIC PART B INFORMATION REQUIREMENTS FOR TANK SYSTEMS. Except as otherwise provided in §264.190, owners and operators of facilities that use tanks to store or treat hazardous waste must provide the following additional information:	§264.190		
(a) A written assessment that is reviewed and certified by an independent, qualified, registered professional engineer as to the **structural integrity** and suitability for handling hazardous waste of each tank system, as required under §§264.191 and 264.192;	§§264.191 & 264.192		
(b) **Dimensions and capacity of each tank;**			
(c) Description of **feed systems, safety cutoff, bypass systems, and pressure controls** (e.g., vents);			
(d) A **diagram of piping, instrumentation, and process flow for each tank system;**			
(e) A description of materials and equipment used to provide **external corrosion protection**, as required under §264.192(a)(3)(ii);	§264.192(a)(3)(ii)		
(f) For new tank systems, a **detailed description of how the tank system(s) will be installed** in compliance with §264.192(b), (c), (d), and (e);	§264.192(b), (c), (d), & (e)		

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
(g) **Detailed plans and description of** how the secondary containment system for each tank system is or will be designed, constructed, and operated to meet the requirements of §264.193(a), (b), (c), (d), (e), and (f);	§264.193(a), (b), (c), (d), (e), & (f)		
(h) For tank systems for which a **variance** from the requirements of §264.193 is sought (as provided by §§264.193(g)):	§264.193; §264.193(g))		
(1) Detailed plans and engineering and hydrogeologic reports, as appropriate, describing alternate design and operating practices that will, in conjunction with location aspects, prevent the migration of any hazardous waste or hazardous constituents into the ground water or surface water during the life of the facility, or			
(2) A detailed assessment of the substantial present or potential hazards posed to human health or the environment should a release enter the environment.			
(i) Description of controls and practices to **prevent spills and overflows**, as required under §264.194(b); and	§264.194(b)		
(j) For tank systems in which ignitable, reactive, or incompatible wastes are to be stored or treated, a **description of how operating procedures** and tank system and facility design will achieve compliance with the requirements of §§264.198 and 264.199.	§§264.198 & 264.199		
(k) Information on **air emission control equipment** as required in § 270.27.			
§ 270.17 SPECIFIC PART B INFORMATION REQUIREMENTS FOR SURFACE IMPOUNDMENTS. Except as otherwise provided in §264.1, owners and operators of facilities that store, treat or dispose of hazardous waste in surface impoundments must provide the following additional information:	§264.1		
(a) A **list of the hazardous wastes** placed or to be placed in each surface impoundment;			

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
(b) **Detailed plans and an engineering report** describing how the surface impoundment is designed and is or will be constructed, operated, and maintained to meet the requirements of §§264.19, 264.221, 264.222, and 264.223 of this chapter, addressing the following items:	§§264.19, 264.221, 264.222, & 264.223		
(1) The liner system (except for an existing portion of a surface impoundment). If an exemption from the requirement for a liner is sought as provided by §264.221(b), submit detailed plans and engineering and hydrogeologic reports, as appropriate, describing alternate design and operating practices that will, in conjunction with location aspects, prevent the migration of any hazardous constituents into the ground water or surface water at any future time;	§264.221(b)		
(2) The double liner and leak (leachate) detection, collection, and removal system, if the surface impoundment must meet the requirements of §264.221(c) of this chapter. If an exemption from the requirements for double liners and a leak detection, collection, and removal system or alternative design is sought as provided by §264.221(d), (e), or (f) of this chapter, submit appropriate information;	§264.221(c); §264.221(d), (e), or (f)		
(3) If the leak detection system is located in a saturated zone, submit detailed plans and an engineering report explaining the leak detection system design and operation, and the location of the saturated zone in relation to the leak detection system;			
(4) The construction quality assurance (CQA) plan if required under §264.19 of this chapter;	§264.19		
(5) Proposed action leakage rate, with rationale, if required under §264.222 of this chapter, and response action plan, if required under §264.223 of this chapter;	§264.222		
(6) Prevention of overtopping; and			
(7) Structural integrity of dikes;			

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
(c) A **description of how each surface impoundment, including the double liner system, leak detection system, cover system, and appurtenances for control of overtopping, will be inspected** in order to meet the requirements of §264.226(a), (b), and (d) of this chapter. This information must be included in the inspection plan submitted under § 270.14(b)(5);	§264.226(a), (b), & (d)		
(d) A **certification by a qualified engineer** which attests to the structural integrity of each dike, as required under §264.226(c). For new units, the owner or operator must submit a statement by a qualified engineer that he will provide such a certification upon completion of construction in accordance with the plans and specifications;	§264.226(c)		
(e) A **description of the procedure to be used for removing a surface impoundment from service**, as required under §264.227(b) and (c). This information should be included in the contingency plan submitted under § 270.14(b)(7);	§264.227(b) & (c)		
(f) A **description of how hazardous waste residues and contaminated materials will be removed from the unit at closure**, as required under §264.228(a)(1). For any wastes not to be removed from the unit upon closure, the owner or operator must submit detailed plans and an engineering report describing how §264.228(a)(2) and (b) will be complied with. This information should be included in the closure plan and, where applicable, the post-closure plan submitted under § 270.14(b)(13);	§264.228(a)(1) §264.228(a)(2) & (b)		
(g) If ignitable or reactive wastes are to be placed in a surface impoundment, **an explanation of** how §264.229 will be complied with;	§264.229		
(h) If incompatible wastes, or incompatible wastes and materials will be placed in a surface impoundment, an **explanation of** how §264.230 will be complied with.	§264.230		
(i) A **waste management plan for EPA Hazardous Waste Nos. F020, F021, F022, F023, F026, and F027** describing how the surface impoundment is or will be designed, constructed, operated, and maintained to meet the requirements of §264.231. This submission must address the following items as specified in §264.231:	§264.231		

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
(1) The volume, physical, and chemical characteristics of the wastes, including their potential to migrate through soil or to volatilize or escape into the atmosphere;			
(2) The attenuative properties of underlying and surrounding soils or other materials;			
(3) The mobilizing properties of other materials co-disposed with these wastes; and			
(4) The effectiveness of additional treatment, design, or monitoring techniques.			
(j) Information on **air emission control equipment** as required in § 270.27.			
§ 270.18 SPECIFIC PART B INFORMATION REQUIREMENTS FOR WASTE PILES. Except as otherwise provided in §264.1, owners and operators of facilities that store or treat hazardous waste in waste piles must provide the following additional information:	§264.1		
(a) A **list of hazardous wastes** placed or to be placed in each waste pile;			
(b) If an **exemption** is sought to §264.251 and subpart F of 264 as provided by §264.250(c) or §264.90(2), an explanation of how the standards of §264.250(c) will be complied with or detailed plans and an engineering report describing how the requirements of §264.90(b)(2) will be met.	§264 subpart F §264.251 §264.250(c) or §264.90(2) §264.250(c) §264.90(b)(2)		
(c) **Detailed plans and an engineering report describing how the waste pile is designed** and is or will be constructed, operated, and maintained to meet the requirements of §§264.19, 264.251, 264.252, and 264.253 of this chapter, addressing the following items:	§§264.19, 264.251, 264.252, & 264.253		

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
(1)(i) The liner system (except for an existing portion of a waste pile), if the waste pile must meet the requirements of §264.251(a) of this chapter. If an exemption from the requirement for a liner is sought as provided by §264.251(b) of this chapter, submit detailed plans, and engineering and hydrogeological reports, as appropriate, describing alternate designs and operating practices that will, in conjunction with location aspects, prevent the migration of any hazardous constituents into the ground water or surface water at any future time;	§264.251(a)		
(ii) The double liner and leak (leachate) detection, collection, and removal system, if the waste pile must meet the requirements of §264.251(c) of this chapter. If an exemption from the requirements for double liners and a leak detection, collection, and removal system or alternative design is sought as provided by §264.251(d), (e), or (f) of this chapter, submit appropriate information;	§264.251(c)		
(iii) If the leak detection system is located in a saturated zone, submit detailed plans and an engineering report explaining the leak detection system design and operation, and the location of the saturated zone in relation to the leak detection system;			
(iv) The construction quality assurance (CQA) plan if required under §264.19 of this chapter;	§264.19		
(v) Proposed action leakage rate, with rationale, if required under §264.252 of this chapter, and response action plan, if required under §264.253 of this chapter;	§264.252		
(2) Control of runon;			
(3) Control of runoff;			
(4) Management of collection and holding units associated with runon and runoff control systems; and			
(5) Control of wind dispersal of particulate matter, where applicable;			

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
(d) A **description of** how each waste pile, including the double liner system, leachate collection and removal system, leak detection system, cover system, and appurtenances for control of runon and runoff, will be **inspected** in order to meet the requirements of §264.254(a), (b), and (c) of this chapter. This information must be included in the inspection plan submitted under § 270.14(b)(5);	§264.254(a), (b), & (c)		
(e) If treatment is carried out on or in the pile, **details of the process and equipment used**, and the nature and quality of the residuals;			
(f) If ignitable or reactive wastes are to be placed in a waste pile, an **explanation of how** the requirements of §264.256 will be complied with;	§264.256		
(g) If incompatible wastes, or incompatible wastes and materials will be place in a waste pile, **an explanation of** how §264.257 will be complied with;	§264.257		
(h) A description of how hazardous waste residues and contaminated materials will be **removed from the waste pile at closure**, as required under §264.258(a). For any waste not to be removed from the waste pile upon closure, the owner or operator must submit detailed plans and an engineering report describing how §264.310(a) and (b) will be complied with. This information should be included in the closure plan and, where applicable, the post-closure plan submitted under §§270.14(b)(13).	§264.258(a) §264.310(a) & (b) §270.14(b)(13)		
(i) A **waste management plan** for EPA Hazardous Waste Nos. F020, F021, F022, F023, F026, and F027 describing how a waste pile that is not enclosed (as defined in §264.250(c)) is or will be designed, constructed, operated, and maintained to meet the requirements of §264.259. This submission must address the following items as specified in §264.259:	§264.250(c), §264.259		
(1) The volume, physical, and chemical characteristics of the wastes to be disposed in the waste pile, including their potential to migrate through soil or to volatilize or escape into the atmosphere;			
(2) The attenuative properties of underlying and surrounding soils or other materials;			

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
(3) The mobilizing properties of other materials co-disposed with these wastes; and			
(4) The effectiveness of additional treatment, design, or monitoring techniques.			
§270.19 SPECIFIC PART B INFORMATION REQUIREMENTS FOR INCINERATORS. Except as §264.340 of this chapter provides otherwise, owners and operators of facilities that incinerate hazardous waste must fulfill the requirements of (a), (b), or (c) of this section.	§264.340		
(a) When seeking an **exemption** under §264.340(b) or (c) of this chapter (Ignitable, corrosive, or reactive wastes only):	§264.340(b) or (c)		
(1) Documentation that the waste is listed as a hazardous waste in part 261, subpart D of this chapter, solely because it is ignitable (Hazard Code I) or corrosive (Hazard Code C) or both; or	§261 subpart D		
(2) Documentation that the waste is listed as a hazardous waste in part 261, subpart D of this chapter, solely because it is reactive (Hazard Code R) for characteristics other than those listed in §261.23(a)(4) and (5) of this chapter, and will not be burned when other hazardous wastes are present in the combustion zone; or	§261 subpart D		
(3) Documentation that the waste is a hazardous waste solely because it possesses the characteristic of ignitability, corrosivity, or both, as determined by the tests for characteristics of hazardous waste under part 261, subpart C of this chapter; or	§261 subpart C		
(4) Documentation that the waste is a hazardous waste solely because it possesses the reactivity characteristics listed in §261.23(a)(1), (2), (3), (6), (7), or (8) of this chapter, and that it will not be burned when other hazardous wastes are present in the combustion zone; or	§261.23(a)(1), (2), (3), (6), (7), or (8)		
(b) Submit a **trial burn plan or the results of a trial burn**, including all required determinations, in accordance with §270.62; or			

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
(c) **In lieu of a trial burn**, the applicant may submit the following information:			
(1) An analysis of each waste or mixture of wastes to be burned including:			
(i) Heat value of the waste in the form and composition in which it will be burned.			
(ii) Viscosity (if applicable), or description of physical form of the waste.			
(iii) An identification of any hazardous organic constituents listed in part 261, appendix VIII, of this chapter, which are present in the waste to be burned, except that the applicant need not analyze for constituents listed in part 261, appendix VIII, of this chapter which would reasonably not be expected to be found in the waste. The constituents excluded from analysis must be identified and the basis for their exclusion stated. The waste analysis must rely on analytical techniques specified in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication SWB846, as incorporated by reference in §260.11 of this chapter and §270.6, or their equivalent.	§261 appendix VIII		
(iv) An approximate quantification of the hazardous constituents identified in the waste, within the precision produced by the analytical methods specified in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication SWB846, as incorporated by reference in §260.11 of this chapter and §270.6.			
(v) A quantification of those hazardous constituents in the waste which may be designated as POHCs based on data submitted from other trial or operational burns which demonstrate compliance with the performance standards in §264.343 of this chapter.	§264.343		
(2) A detailed engineering description of the incinerator, including:			
(i) Manufacturer's name and model number of incinerator.			
(ii) Type of incinerator.			
(iii) Linear dimension of incinerator unit including cross sectional area of combustion chamber.			

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
(iv) Description of auxiliary fuel system (type/feed).			
(v) Capacity of prime mover.			
(vi) Description of automatic waste feed cutoff system(s).			
(vii) Stack gas monitoring and pollution control monitoring system.			
(viii) Nozzle and burner design.			
(ix) Construction materials.			
(x) Location and description of temperature, pressure, and flow indicating devices and control devices.			
(3) A description and analysis of the waste to be burned compared with the waste for which data from operational or trial burns are provided to support the contention that a trial burn is not needed. The data should include those items listed in paragraph (c)(1) of this section. This analysis should specify the POHCs which the applicant has identified in the waste for which a permit is sought, and any differences from the POHCs in the waste for which burn data are provided.			
(4) The design and operating conditions of the incinerator unit to be used, compared with that for which comparative burn data are available.			
(5) A description of the results submitted from any previously conducted trial burn(s) including:			
(i) Sampling and analysis techniques used to calculate performance standards in §264.343 of this chapter,	§264.343		
(ii) Methods and results of monitoring temperatures, waste feed rates, carbon monoxide, and an appropriate indicator of combustion gas velocity (including a statement concerning the precision and accuracy of this measurement),			
(6) The expected incinerator operation information to demonstrate compliance with §§264.343 and 264.345 of this chapter including:	§§264.343 & 264.345		
(i) Expected carbon monoxide (CO) level in the stack exhaust gas.			
(ii) Waste feed rate.			

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
(iii) Combustion zone temperature.			
(iv) Indication of combustion gas velocity.			
(v) Expected stack gas volume, flow rate, and temperature.			
(vi) Computed residence time for waste in the combustion zone.			
(vii) Expected hydrochloric acid removal efficiency.			
(viii) Expected fugitive emissions and their control procedures.			
(ix) Proposed waste feed cutoff limits based on the identified significant operating parameters.			
(7) Such supplemental information as the Director finds necessary to achieve the purposes of this paragraph.			
(8) Waste analysis data, including that submitted in paragraph (c)(1) of this section, sufficient to allow the Director to specify as permit Principal Organic Hazardous Constituents (permit POHCs) those constituents for which destruction and removal efficiencies will be required.			
(d) The Director shall approve a permit application without a **trial burn** if he finds that:			
(1) The wastes are sufficiently similar; and			
(2) The incinerator units are sufficiently similar, and the data from other trial burns are adequate to specify (under §264.345 of this chapter) operating conditions that will ensure that the performance standards in §264.343 of this chapter will be met by the incinerator.	§264.345, §264.343		
§270.20 SPECIFIC PART B INFORMATION REQUIREMENTS FOR LAND TREATMENT FACILITIES. Except as otherwise provided in §264.1, owners and operators of facilities that use land treatment to dispose of hazardous waste must provide the following additional information:	§264.1		

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
(a) A description of plans to conduct a **treatment demonstration** as required under §264.272. The description must include the following information;	§264.272		
(1) The wastes for which the demonstration will be made and the potential hazardous constituents in the waste;			
(2) The data sources to be used to make the demonstration (e.g., literature, laboratory data, field data, or operating data);			
(3) Any specific laboratory or field test that will be conducted, including:			
(i) The type of test (e.g., column leaching, degradation);			
(ii) Materials and methods, including analytical procedures;			
(iii) Expected time for completion;			
(iv) Characteristics of the unit that will be simulated in the demonstration, including treatment zone characteristics, climatic conditions, and operating practices.			
(b) A **description of a land treatment program**, as required under §264.271. This information must be submitted with the plans for the treatment demonstration, and updated following the treatment demonstration. The land treatment program must address the following items:	§264.271		
(1) The wastes to be land treated;			
(2) Design measures and operating practices necessary to maximize treatment in accordance with §264.273(a) including:	§264.273(a)		
(i) Waste application method and rate;			
(ii) Measures to control soil pH;			
(iii) Enhancement of microbial or chemical reactions;			
(iv) Control of moisture content;			
(3) Provisions for unsaturated zone monitoring, including:			
(i) Sampling equipment, procedures, and frequency;			

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
(ii) Procedures for selecting sampling locations;			
(iii) Analytical procedures;			
(iv) Chain of custody control;			
(v) Procedures for establishing background values;			
(vi) Statistical methods for interpreting results;			
(vii) The justification for any hazardous constituents recommended for selection as principal hazardous constituents, in accordance with the criteria for such selection in §264.278(a);	§264.278(a)		
(4) A list of hazardous constituents reasonably expected to be in, or derived from, the wastes to be land treated based on waste analysis performed pursuant to §264.13;	§264.13		
(5) The proposed dimensions of the treatment zone;			
(c) A **description of** how the unit is or will be designed, constructed, operated, and maintained in order to meet the requirements of §264.273. This submission must address the following items:	§264.273		
(1) Control of runon;			
(2) Collection and control of runoff;			
(3) Minimization of runoff of hazardous constituents from the treatment zone;			
(4) Management of collection and holding facilities associated with runon and runoff control systems;			
(5) Periodic inspection of the unit. This information should be included in the inspection plan submitted under §270.14(b)(5);			
(6) Control of wind dispersal of particulate matter, if applicable;			
(d) If food-chain crops are to be grown in or on the treatment zone of the land treatment unit, a **description of how** the demonstration required under §264.276(a) will be conducted including:	§264.276(a)		
(1) Characteristics of the food-chain crop for which the demonstration will be made.			

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
(2) Characteristics of the waste, treatment zone, and waste application method and rate to be used in the demonstration;			
(3) Procedures for crop growth, sample collection, sample analysis, and data evaluation;			
(4) Characteristics of the comparison crop including the location and conditions under which it was or will be grown;			
(e) If food-chain crops are to be grown, and cadmium is present in the land-treated waste, a **description of how** the requirements of §264.276(b) will be complied with;	§264.276(b)		
(f) A **description of the vegetative cover** to be applied to closed portions of the facility, and a plan for maintaining such cover during the post-closure care period, as required under §§264.280(a)(8) and 264.280(c)(2). This information should be included in the closure plan and, where applicable, the post-closure care plan submitted under §270.14(b)(13);	§§264.280(a)(8) & 264.280(c)(2)		
(g) If ignitable or reactive wastes will be placed in or on the treatment zone, an **explanation of how** the requirements of §264.281 will be complied with;	§264.281		
(h) If incompatible wastes, or incompatible wastes and materials, will be placed in or on the same treatment zone, **an explanation of how** §264.282 will be complied with.	§264.282		
(i) A **waste management plan for EPA Hazardous Waste Nos. F020, F021, F022, F023, F026, and F027** describing how a land treatment facility is or will be designed, constructed, operated, and maintained to **meet the requirements of** §264.283. This submission must address the following items as specified in §264.283:	§264.283		
(1) The volume, physical, and chemical characteristics of the wastes, including their potential to migrate through soil or to volatilize or escape into the atmosphere;			
(2) The attenuative properties of underlying and surrounding soils or other materials;			
(3) The mobilizing properties of other materials co-disposed with these wastes; and			

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
(4) The effectiveness of additional treatment, design, or monitoring techniques.			
§270.21 SPECIFIC PART B INFORMATION REQUIREMENTS FOR LANDFILLS. Except as otherwise provided in §264.1, owners and operators of facilities that dispose of hazardous waste in landfills must provide the following additional information:	§264.1		
(a) A **list of the hazardous wastes** placed or to be placed in each landfill or landfill cell;			
(b) Detailed **plans and an engineering report describing how the landfill is designed and is or will be constructed, operated, and maintained** to meet the requirements of §§264.19, 264.301, 264.302, and 264.303 of this chapter, addressing the following items:	§§264.19, 264.301, 264.302, 264.303		
(1)(i) The liner system (except for an existing portion of a landfill), if the landfill must meet the requirements of §264.301(a) of this chapter. If an exemption from the requirement for a liner is sought as provided by §264.301(b) of this chapter, submit detailed plans, and engineering and hydrogeological reports, as appropriate, describing alternate designs and operating practices that will, in conjunction with location aspects, prevent the migration of any hazardous constituents into the ground water or surface water at any future time;	§264.301(a), §264.301(b)		
(ii) The double liner and leak (leachate) detection, collection, and removal system, if the landfill must meet the requirements of §264.301(c) of this chapter. If an exemption from the requirements for double liners and a leak detection, collection, and removal system or alternative design is sought as provided by §264.301(d), (e), or (f) of this chapter, submit appropriate information;	§264.301(c), §264.301(d), (e), or (f)		
(iii) If the leak detection system is located in a saturated zone, submit detailed plans and an engineering report explaining the leak detection system design and operation, and the location of the saturated zone in relation to the leak detection system;			

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
(iv) The construction quality assurance (CQA) plan if required under §264.19 of this chapter;	§264.19		
(v) Proposed action leakage rate, with rationale, if required under §264.302 of this chapter, and response action plan, if required under §264.303 of this chapter;	§264.302 §264.303		
(2) Control of runon;			
(3) Control of runoff;			
(4) Management of collection and holding facilities associated with runon and runoff control systems; and			
(5) Control of wind dispersal of particulate matter, where applicable;			
(c) A description of **how each landfill**, including the double liner system, leachate collection and removal system, leak detection system, cover system, and appurtenances for control of runon and runoff, **will be inspected** in order to meet the requirements of §264.303(a), (b), and (c) of this chapter. This information must be included in the inspection plan submitted under §270.14(b)(5);	§264.303(a), (b), & (c)		
(d) A description of **how each landfill**, including the liner and cover systems, **will be inspected in order** to meet the requirements of §264.303(a) and (b). This information should be included in the inspection plan submitted under §270.14(b)(5).	§264.303(a) & (b)		
(e) Detailed plans and an engineering report describing the **final cover** which will be applied to each landfill or landfill cell at closure in accordance with §264.310(a), and a description of how each landfill will be maintained and monitored after closure in accordance with §264.310(b). This information should be included in the closure and post-closure plans submitted under §270.14(b)(13).	§264.310(a)		
(f) If ignitable or reactive wastes will be landfilled, **an explanation of how the standards of** §264.312 will be complied with;	§264.312		
(g) If incompatible wastes, or incompatible wastes and materials will be landfilled, **an explanation of how** §264.313 will be complied with;	§264.313		

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
(h) If bulk or noncontainerized liquid waste or wastes containing free liquids is to be landfilled prior to May 8, 1985, **an explanation of how** the requirements of §264.314(a) will be complied with;	§264.314(a)		
(i) If containers of hazardous waste are to be landfilled, **an explanation of** how the requirements of §264.315 or §264.316, as applicable, will be complied with.	§264.315 or §264.316		
(j) A **waste management plan for EPA Hazardous Waste Nos. F020, F021, F022, F023, F026, and F027** describing how a landfill is or will be designed, constructed, operated, and maintained to meet the requirements of §264.317. This submission must address the following items as specified in §264.317:	§264.317		
(1) The volume, physical, and chemical characteristics of the wastes, including their potential to migrate through soil or to volatilize or escape into the atmosphere;			
(2) The attenuative properties of underlying and surrounding soils or other materials;			
(3) The mobilizing properties of other materials co-disposed with these wastes;			
(4) The effectiveness of additional treatment, design, or monitoring techniques.			
§270.22 SPECIFIC PART B INFORMATION REQUIREMENTS FOR BOILERS AND INDUSTRIAL FURNACES BURNING HAZARDOUS WASTE.			
(a) **Trial Burns**			
(1) General. Except as provided below, owners and operators that are subject to the standards to control organic emissions provided by §266.104 of this chapter, standards to control particulate matter provided by §266.105 of this chapter, standards to control metals emissions provided by §266.106 of this chapter, or standards to control hydrogen chloride or chlorine gas emissions provided by §266.107 of this chapter must conduct a trial burn to demonstrate conformance with those standards and must submit a trial burn plan or the results of a trial burn, including all required determinations, in	§266.104 §266.105, §266.106§266.107		

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
accordance with §270.66.			
(i) A trial burn to demonstrate conformance with a particular emission standard may be waived under provisions of §§266.104 through 266.107 of this chapter and paragraphs (a)(2) through (a)(5) of this section; and	§§266.104 thru 266.107		
(ii) The owner or operator may submit data in lieu of a trial burn, as prescribed in paragraph (a)(6) of this section.			
(2) Waiver of trial burn for DREC			
(i) Boilers operated under special operating requirements. When seeking to be permitted under §§266.104(a)(4) and 266.110 of this chapter that automatically waive the DRE trial burn, the owner or operator of a boiler must submit documentation that the boiler operates under the special operating requirements provided by §266.110 of this chapter.	§§266.104(a)(4) & 266.110		
(ii) Boilers and industrial furnaces burning low risk waste. When seeking to be permitted under the provisions for low risk waste provided by §§266.104(a)(5) and 266.109(a) of this chapter that waive the DRE trial burn, the owner or operator must submit:	§§266.104(a)(5) & 266.109(a)		
(A) Documentation that the device is operated in conformance with the requirements of §266.109(a)(1) of this chapter.	§266.109(a)(1)		
(B) Results of analyses of each waste to be burned, documenting the concentrations of nonmetal compounds listed in appendix VIII of part 261 of this chapter, except for those constituents that would reasonably not be expected to be in the waste. The constituents excluded from analysis must be identified and the basis for their exclusion explained. The analysis must rely on analytical techniques specified in Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (incorporated by reference, see §260.11).	§261 appendix VIII		
(C) Documentation of hazardous waste firing rates and calculations of reasonable, worst case emission rates of each constituent identified in paragraph (a)(2)(ii)(B) of this section using procedures provided by §266.109(a)(2)(ii) of this chapter.	§266.109(a)(2)(ii)		

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
(D) Results of emissions dispersion modeling for emissions identified in paragraphs (a)(2)(ii)(C) of this section using modeling procedures prescribed by §266.106(h) of this chapter. The Director will review the emission modeling conducted by the applicant to determine conformance with these procedures. The Director will either approve the modeling or determine that alternate or supplementary modeling is appropriate.	§266.106(h)		
(E) Documentation that the maximum annual average ground level concentration of each constituent identified in paragraph (a)(2)(ii)(B) of this section quantified in conformance with paragraph (a)(2)(ii)(D) of this section does not exceed the allowable ambient level established in appendices IV or V of part 266. The acceptable ambient concentration for emitted constituents for which a specific Reference Air Concentration has not been established in appendix IV or Risk Specific Dose has not been established in appendix V is 0.1 micrograms per cubic meter, as noted in the footnote to appendix IV.	§266 appendices IV or V		
(3) Waiver of trial burn for metals. When seeking to be permitted under the Tier I (or adjusted Tier I) metals feed rate screening limits provided by §266.106(b) and (e) of this chapter that control metals emissions without requiring a trial burn, the owner or operator must submit:	§266.106(b) & (e)		
(i) Documentation of the feed rate of hazardous waste, other fuels, and industrial furnace feed stocks;			
(ii) Documentation of the concentration of each metal controlled by §266.106(b) or (e) of this chapter in the hazardous waste, other fuels, and industrial furnace feedstocks, and calculations of the total feed rate of each metal;	§266.106 (b) or (e)		
(iii) Documentation of how the applicant will ensure that the Tier I feed rate screening limits provided by §266.106(b) or (e) of this chapter will not be exceeded during the averaging period provided by that paragraph;	§266.106(b) or (e)		
(iv) Documentation to support the determination of the terrain adjusted effective stack height, good engineering practice stack height, terrain type, and land use as provided by §266.106(b)(3) through (b)(5) of this chapter;	§266.106(b)(3) thru (b)(5)		

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
(v) Documentation of compliance with the provisions of §266.106(b)(6), if applicable, for facilities with multiple stacks;	§266.106(b)(6)		
(vi) Documentation that the facility does not fail the criteria provided by §266.106(b)(7) for eligibility to comply with the screening limits; and (vii) Proposed sampling and metals analysis plan for the hazardous waste, other fuels, and industrial furnace feed stocks.	§266.106(b)(7)		
(4) Waiver of trial burn for particulate matter. When seeking to be permitted under the low risk waste provisions of §266.109(b) which waives the particulate standard (and trial burn to demonstrate conformance with the particulate standard), applicants must submit documentation supporting conformance with paragraphs (a)(2)(ii) and (a)(3) of this section.	§266.109(b)		
(5) Waiver of trial burn for HCl and Cl2. When seeking to be permitted under the Tier I (or adjusted Tier I) feed rate screening limits for total chloride and chlorine provided by §266.107(b)(1) and (e) of this chapter that control emissions of hydrogen chloride (HCl) and chlorine gas (Cl2) without requiring a trial burn, the owner or operator must submit:	§266.107(b)(1) and (e)		
(i) Documentation of the feed rate of hazardous waste, other fuels, and industrial furnace feed stocks;			
(ii) Documentation of the levels of total chloride and chlorine in the hazardous waste, other fuels, and industrial furnace feedstocks, and calculations of the total feed rate of total chloride and chlorine;			
(iii) Documentation of how the applicant will ensure that the Tier I (or adjusted Tier I) feed rate screening limits provided by §266.107(b)(1) or (e) of this chapter will not be exceeded during the averaging period provided by that paragraph;	§266.107(b)(1) or (e)		
(iv) Documentation to support the determination of the terrain adjusted effective stack height, good engineering practice stack height, terrain type, and land use as provided by §266.107(b)(3) of this chapter;	§266.107(b)(3)		
(v) Documentation of compliance with the provisions of §266.107(b)(4), if applicable, for facilities with	§266.107(b)(4)		

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
multiple stacks;			
(vi) Documentation that the facility does not fail the criteria provided by §266.107(b)(3) for eligibility to comply with the screening limits; and	§266.107(b)(3)		
(vii) Proposed sampling and analysis plan for total chloride and chlorine for the hazardous waste, other fuels, and industrial furnace feedstocks.			
(6) Data in lieu of trial burn. The owner or operator may seek an exemption from the trial burn requirements to demonstrate conformance with §§266.104 through 266.107 of this chapter and §270.66 by providing the information required by §270.66 from previous compliance testing of the device in conformance with §266.103 of this chapter, or from compliance testing or trial or operational burns of similar boilers or industrial furnaces burning similar hazardous wastes under similar conditions. If data from a similar device is used to support a trial burn waiver, the design and operating information required by §270.66 must be provided for both the similar device and the device to which the data is to be applied, and a comparison of the design and operating information must be provided. The Director shall approve a permit application without a trial burn if he finds that the hazardous wastes are sufficiently similar, the devices are sufficiently similar, the operating conditions are sufficiently similar, and the data from other compliance tests, trial burns, or operational burns are adequate to specify (under §266.102 of this chapter) operating conditions that will ensure conformance with §266.102(c) of this chapter. In addition, the following information shall be submitted:	§§266.104 thru 266.107 §266.102(c), §266.103		
(i) For a waiver from any trial burn:			
(A) A description and analysis of the hazardous waste to be burned compared with the hazardous waste for which data from compliance testing, or operational or trial burns are provided to support the contention that a trial burn is not needed;			

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
(B) The design and operating conditions of the boiler or industrial furnace to be used, compared with that for which comparative burn data are available; and (C) Such supplemental information as the Director finds necessary to achieve the purposes of this paragraph.			
(ii) For a waiver of the DRE trial burn, the basis for selection of POHCs used in the other trial or operational burns which demonstrate compliance with the DRE performance standard in §266.104(a) of this chapter. This analysis should specify the constituents in appendix VIII, part 261 of this chapter, that the applicant has identified in the hazardous waste for which a permit is sought, and any differences from the POHCs in the hazardous waste for which burn data are provided.	§261 appendix VIII §266.104(a)		
(b) **Alternative HC limit for industrial furnaces with organic matter in raw materials.** Owners and operators of industrial furnaces requesting an alternative HC limit under §266.104(f) of this chapter shall submit the following information at a minimum:	§266.104(f)		
(1) Documentation that the furnace is designed and operated to minimize HC emissions from fuels and raw materials;			
(2) Documentation of the proposed baseline flue gas HC (and CO) concentration, including data on HC (and CO) levels during tests when the facility produced normal products under normal operating conditions from normal raw materials while burning normal fuels and when not burning hazardous waste;			
(3) Test burn protocol to confirm the baseline HC (and CO) level including information on the type and flow rate of all feedstreams, point of introduction of all feedstreams, total organic carbon content (or other appropriate measure of organic content) of all nonfuel feedstreams, and operating conditions that affect combustion of fuel(s) and destruction of hydrocarbon emissions from nonfuel sources;			
(4) Trial burn plan to: (i) Demonstrate that flue gas HC (and CO) concentrations when burning hazardous waste do not exceed the baseline HC (and CO) level; and (ii) Identify the types and concentrations of organic compounds	§261 appendix VIII		

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
listed in appendix VIII, part 261 of this chapter, that are emitted when burning hazardous waste in conformance with procedures prescribed by the Director;			
(5) Implementation plan to monitor over time changes in the operation of the facility that could reduce the baseline HC level and procedures to periodically confirm the baseline HC level; and (6) Such other information as the Director finds necessary to achieve the purposes of this paragraph.			
(c) **Alternative metals implementation approach.** When seeking to be permitted under an alternative metals implementation approach under §266.106(f) of this chapter, the owner or operator must submit documentation specifying how the approach ensures compliance with the metals emissions standards of §266.106(c) or (d) and how the approach can be effectively implemented and monitored. Further, the owner or operator shall provide such other information that the Director finds necessary to achieve the purposes of this paragraph.	§266.106(f)		
(d) **Automatic waste feed cutoff system.** Owners and operators shall submit information describing the automatic waste feed cutoff system, including any pre-alarm systems that may be used.			
(e) **Direct transfer.** Owners and operators that use direct transfer operations to feed hazardous waste from transport vehicles (containers, as defined in §266.111 of this chapter) directly to the boiler or industrial furnace shall submit information supporting conformance with the standards for direct transfer provided by §266.111 of this chapter.	§266.111		
(f) **Residues.** Owners and operators that claim that their residues are excluded from regulation under the provisions of §266.112 of this chapter must submit information adequate to demonstrate conformance with those provisions.	§266.112		
§270.23 SPECIFIC PART B INFORMATION REQUIREMENTS FOR MISCELLANEOUS UNITS. Except as otherwise provided in §264.600, owners and operators of facilities that treat, store, or dispose of	§264.600		

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
hazardous waste in miscellaneous units must provide the following additional information:			
(a) A **detailed description of the unit** being used or proposed for use, including the following:			
(1) Physical characteristics, materials of construction, and dimensions of the unit;			
(2) Detailed plans and engineering reports describing how the unit will be located, designed, constructed, operated, maintained, monitored, inspected, and closed to comply with the requirements of §§264.601 and 264.602; and (3) For disposal units, a detailed description of the plans to comply with the post-closure requirements of §264.603.	§§264.601 & 264.602		
(b) **Detailed hydrologic, geologic, and meteorologic assessments and land use maps for the region** surrounding the site that address and ensure compliance of the unit with each factor in the environmental performance standards of §264.601. If the applicant can demonstrate that he does not violate the environmental performance standards of §264.601 and the Director agrees with such demonstration, preliminary hydrologic, geologic, and meteorologic assessments will suffice.	§264.601		
(c) Information on the **potential pathways of exposure of humans or environmental receptors** to hazardous waste or hazardous constituents and on the potential magnitude and nature of such exposures.			
(d) For any treatment unit, a report on a **demonstration of the effectiveness of the treatment** based on laboratory or field data.			
(e) Any **additional information determined by the Director to be necessary** for evaluation of compliance of the unit with the environmental performance standards of §264.601.	§264.601		
§270.24 SPECIFIC PART B INFORMATION REQUIREMENTS FOR PROCESS VENTS. Except as otherwise provided in §264.1, owners and operators of facilities that have process vents to which	§264.1 §264 subpart AA		

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
subpart AA of 264 applies must provide the following additional information:			
(a) For facilities that cannot install a closed-vent system and control device to comply with the provisions of 40 CFR 264 subpart AA on the effective date that the facility becomes subject to the provisions of 40 CFR 264 or 265 subpart AA, **an implementation schedule** as specified in §264.1033(a)(2).	§264 subpart AA §265 subpart AA §264.1033(a)(2)		
(b) **Documentation of compliance with the process vent standards** in §264.1032, including:	§264.1032		
(1) Information and data identifying all affected process vents, annual throughput and operating hours of each affected unit, estimated emission rates for each affected vent and for the overall facility (i.e., the total emissions for all affected vents at the facility), and the approximate location within the facility of each affected unit (e.g., identify the hazardous waste management units on a facility plot plan).			
(2) Information and data supporting estimates of vent emissions and emission reduction achieved by add-on control devices based on engineering calculations or source tests. For the purpose of determining compliance, estimates of vent emissions and emission reductions must be made using operating parameter values (e.g., temperatures, flow rates, or concentrations) that represent the conditions that exist when the waste management unit is operating at the highest load or capacity level reasonably expected to occur.			
(3) Information and data used to determine whether or not a process vent is subject to the requirements of §264.1032.	§264.1032		
(c) Where an owner or operator applies for permission to use a control device other than a thermal vapor incinerator, catalytic vapor incinerator, flare, boiler, process heater, condenser, or carbon adsorption system to comply with the requirements of §264.1032, and chooses to use test data to determine the organic removal efficiency or the total organic compound concentration achieved by the control device, **a performance test plan** as specified	§264.1032		

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
in §264.1035(b)(3).			
(d) **Documentation of compliance** with §264.1033, including:	§264.1033		
(1) A list of all information references and sources used in preparing the documentation.			
(2) Records, including the dates, of each compliance test required by §264.1033(k).	§264.1033(k)		
(3) A design analysis, specifications, drawings, schematics, and piping and instrumentation diagrams based on the appropriate sections of AAPTI Course 415: Control of Gaseous Emissions@ (incorporated by reference as specified in §260.11) or other engineering texts acceptable to the Regional Administrator that present basic control device design information. The design analysis shall address the vent stream characteristics and control device operation parameters as specified in §264.1035(b)(4)(iii).	§264.1035(b)(4)(iii)		
(4) A statement signed and dated by the owner or operator certifying that the operating parameters used in the design analysis reasonably represent the conditions that exist when the hazardous waste management unit is or would be operating at the highest load or capacity level reasonably expected to occur.			
(5) A statement signed and dated by the owner or operator certifying that the control device is designed to operate at an efficiency of 95 weight percent or greater unless the total organic emission limits of §264.1032(a) for affected process vents at the facility can be attained by a control device involving vapor recovery at an efficiency less than 95 weight percent.	§264.1032(a)		
§270.25 SPECIFIC PART B INFORMATION REQUIREMENTS FOR EQUIPMENT. Except as otherwise provided in §264.1, owners and operators of facilities that have equipment to which subpart BB of 264 applies must provide the following additional information:	§264.1 §264 subpart BB		
(a) For **each piece of equipment** to which subpart BB of 264 applies:	§264 subpart BB		

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
applies:			
(1) Equipment identification number and hazardous waste management unit identification.			
(2) Approximate locations within the facility (e.g., identify the hazardous waste management unit on a facility plot plan).			
(3) Type of equipment (e.g., a pump or pipeline valve).			
(4) Percent by weight total organics in the hazardous waste stream at the equipment.			
(5) Hazardous waste state at the equipment (e.g., gas/vapor or liquid).			
(6) Method of compliance with the standard (e.g., "monthly leak detection and repair" or "equipped with dual mechanical seals").			
(b) For facilities that cannot install a closed-vent system and control device to comply with the provisions of 40 CFR 264 subpart BB on the effective date that the facility becomes subject to the provisions of 40 CFR 264 or 265 subpart BB, an **implementation schedule** as specified in §264.1033(a)(2).	§264 subpart BB §265 subpart BB		
(c) Where an owner or operator applies for permission to **use a control device other** than a thermal vapor incinerator, catalytic vapor incinerator, flare, boiler, process heater, condenser, or carbon adsorption system and chooses to use test data to determine the organic removal efficiency or the total organic compound concentration achieved by the control device, a performance test plan as specified in §264.1035(b)(3).	§264.1035(b)(3)		
(d) **Documentation that demonstrates compliance with the equipment standards** in §§264.1052 to 264.1059. This documentation shall contain the records required under §264.1064. The Regional Administrator may request further documentation before deciding if compliance has been demonstrated.	§§264.1052 to 264.1059 §264.1064		
(e) **Documentation to demonstrate compliance** with §264.1060 shall include the following information:	§264.1060		

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
(1) A list of all information references and sources used in preparing the documentation.			
(2) Records, including the dates, of each compliance test required by §264.1033(j).	§264.1033(j)		
(3) A design analysis, specifications, drawings, schematics, and piping and instrumentation diagrams based on the appropriate sections of AATPI Course 415: Control of Gaseous Emissions@ (incorporated by reference as specified in §260.11) or other engineering texts acceptable to the Regional Administrator that present basic control device design information. The design analysis shall address the vent stream characteristics and control device operation parameters as specified in §264.1035(b)(4)(iii).	§264.1035(b)(4)(iii)		
(4) A statement signed and dated by the owner or operator certifying that the operating parameters used in the design analysis reasonably represent the conditions that exist when the hazardous waste management unit is operating at the highest load or capacity level reasonably expected to occur.			
(5) A statement signed and dated by the owner or operator certifying that the control device is designed to operate at an efficiency of 95 weight percent or greater.			
§270.26 SPECIAL PART B INFORMATION REQUIREMENTS FOR DRIP PADS. Except as otherwise provided by §264.1 of this chapter, owners and operators of hazardous waste treatment, storage, or disposal facilities that collect, store, or treat hazardous waste on drip pads must provide the following additional information:	§264.1		
(a) A **list of hazardous wastes** placed or to be placed on each drip pad.			
(b) If an exemption is sought to subpart F of 264 of this chapter, as provided by §264.90 of this chapter, detailed **plans and an engineering report** describing how the requirements of §264.90(b)(2) of this chapter will be met.	§264 subpart F		

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
(c) **Detailed plans and an engineering report** describing how the drip pad is or will be designed, constructed, operated and maintained to meet the requirements of §264.573 of this chapter, including the as-built drawings and specifications. This submission must address the following items as specified in §264.571 of this chapter:	§264.573 §264.571		
(1) The design characteristics of the drip pad;			
(2) The liner system;			
(3) The leakage detection system, including the leak detection system and how it is designed to detect the failure of the drip pad or the presence of any releases of hazardous waste or accumulated liquid at the earliest practicable time;			
(4) Practices designed to maintain drip pads;			
(5) The associated collection system;			
(6) Control of runon to the drip pad;			
(7) Control of runoff from the drip pad;			
(8) The interval at which drippage and other materials will be removed from the associated collection system and a statement demonstrating that the interval will be sufficient to prevent overflow onto the drip pad;			
(9) Procedures for cleaning the drip pad at least once every seven days to ensure the removal of any accumulated residues of waste or other materials, including but not limited to rinsing, washing with detergents or other appropriate solvents, or steam cleaning and provisions for documenting the date, time, and cleaning procedure used each time the pad is cleaned.			
(10) Operating practices and procedures that will be followed to ensure that tracking of hazardous waste or waste constituents off the drip pad due to activities by personnel or equipment is minimized;			
(11) Procedures for ensuring that, after removal from the treatment vessel, treated wood from pressure and non-pressure processes is held on the drip pad until drippage has ceased, including recordkeeping practices;			
(12) Provisions for ensuring that collection and holding units associated with the runon and runoff control systems			

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
are emptied or otherwise managed as soon as possible after storms to maintain design capacity of the system;			
(13) If treatment is carried out on the drip pad, details of the process equipment used, and the nature and quality of the residuals.			
(14) A description of how each drip pad, including appurtenances for control of runon and runoff, will be inspected in order to meet the requirements of §264.573 of this chapter. This information should be included in the inspection plan submitted under §270.14(b)(5) of this part.	§264.573		
(15) A certification signed by an independent qualified, registered professional engineer, stating that the drip pad design meets the requirements of paragraphs (a) through (f) of §264.573 of this chapter.	§§264.573(a) thru (f)		
(16) A description of how hazardous waste residues and contaminated materials will be removed from the drip pad at closure, as required under §264.575(a) of this chapter. For any waste not to be removed from the drip pad upon closure, the owner or operator must submit detailed plans and an engineering report describing how §264.310(a) and (b) of this chapter will be complied with. This information should be included in the closure plan and, where applicable, the post-closure plan submitted under §270.14(b)(13).	§264.575(a) §264.310(a) & (b)		
§270.27 SPECIFIC PART B INFORMATION REQUIREMENTS FOR AIR EMISSION CONTROLS FOR TANKS, SURFACE IMPOUNDMENTS, AND CONTAINERS.			
(a) Except as otherwise provided in 40 CFR 264.1, owners and operators of **tanks, surface impoundments, or containers that use air emission controls** in accordance with the requirements of 264, subpart CC shall provide the following additional information:	§264.1 §264 subpart CC		
(1) **Documentation for each floating roof cover installed on a tank** subject to 40 CFR 264.1084(d)(1) or 40 CFR 264.1084(d)(2) that includes information prepared by the owner or operator or provided by the cover manufacturer or vendor describing the cover design, and certification by	§264.1084(d)(1) §264.1084(d)(2) §264.1084(e)(1) or §264.1084(f)(1)		

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
the owner or operator that the cover meets the applicable design specifications as listed in 40 CFR 264.1084(e)(1) or 40 CFR 264.1084(f)(1).			
(2) **Identification of each container area** subject to the requirements of 40 CFR 264, subpart CC and certification by the owner or operator that the requirements of this subpart are met.	§264 subpart CC		
(3) **Documentation for each enclosure used to control air pollutant emissions from tanks or containers** in accordance with the requirements of 40 CFR 264.1084(d)(5) or 40 CFR 264.1086(e)(1)(ii) that includes records for the most recent set of calculations and measurements performed by the owner or operator to verify that the enclosure meets the criteria of a permanent total enclosure as specified in "Procedure TC Criteria for and Verification of a Permanent or Temporary Total Enclosure" under 40 CFR 52.741, appendix B.	§264.1084(d)(5) or §264.1086(e)(1)(ii)		
(4) **Documentation for each floating membrane cover** installed on a surface impoundment in accordance with the requirements of 40 CFR 264.1085(c) that includes information prepared by the owner or operator or provided by the cover manufacturer or vendor describing the cover design, and certification by the owner or operator that the cover meets the specifications listed in 40 CFR 264.1085(c)(1).	§264.1085(c) §264.1085(c)(1)		
(5) **Documentation for each closed-vent system and control device** installed in accordance with the requirements of 40 CFR 264.1087 that includes design and performance information as specified in §270.24(c) and (d) of this part.	§264.1087		
(6) An **emission monitoring plan** for both Method 21 in 40 CFR part 60, appendix A and control device monitoring methods. This plan shall include the following information: monitoring point(s), monitoring methods for control devices, monitoring frequency, procedures for documenting exceedances, and procedures for mitigating noncompliances.			
(7) When an owner or operator of a facility subject to 40 CFR part 265, subpart CC cannot comply with 40 CFR 264, subpart CC by the date of permit issuance, the **schedule of**	§264 subpart CC §265 subpart CC		

40 CFR 270 CITATIONS	40 CFR 264 etc. REFERENCE	LOCATION IN APPLICATION	COMMENTS
subpart CC by the date of permit issuance, the **schedule of implementation** required under 40 CFR 265.1082.			
§270.28 PART B INFORMATION REQUIREMENTS FOR POST-CLOSURE PERMITS. For post-closure permits, the owner or operator is required to submit only the **information specified in §§270.14(b)(1), (4), (5), (6), (11), (13), (14), (16), (18) and (19), (c), and (d)**, unless the Regional Administrator determines that additional information from §§270.14, 270.16, 270.17, 270.18, 270.20, or 270.21 is necessary. The owner or operator is required to submit the same information when an alternative authority is used in lieu of a post-closure permit as provided in §270.1(c)(7).			