

N00207.AR.003524
NAS JACKSONVILLE
5090.3a

PERMIT FOR POST CLOSURE OF THREE HAZARDOUS WASTE SURFACE
IMPOUNDMENTS AND WAST STORAGE AT BUILDING 101 NAS JACKSONVILLE FL
7/1/1997
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION



Department of Environmental Protection

Lawton Chiles
Governor

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Virginia B. Wetherell
Secretary

Permittee:
U. S. Naval Air Station - Jacksonville
Post Office Box 5
Jacksonville, Florida 32212-5000

Attention:
Captain Robert D. Whitmire,
Commanding Officer

I.D. Number: FL6 170 024 412
Permit/Certification Number: HF16-288092
Issue Date: June 26, 1997
Expiration Date: September 20, 2001
County: Duval
Latitude/Longitude: 30°13'30"N/81°41'40"W
Section/Township Range: 23/T3S/R27E
Project: Post-closure of three hazardous waste surface impoundments and a hazardous waste storage unit (Building 101 - electroplating shop).

This permit is issued under the provisions of Section 403.722, Florida Statutes and Florida Administrative Code Chapters 62-3, 62-4, 62-25, 62-160, 62-522, 62-532, 62-550, and 62-730. The above-named permittee is hereby authorized to perform the work or operate the facility shown on the application, and approved drawing(s), plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

To post-close three surface impoundments that are no longer in service: Domestic Waste Sludge Drying Beds, Industrial Waste Sludge Drying Beds, and Polishing Pond. These surface impoundments contained hazardous waste generated from wastewater treatment operations at Naval Air Station-Jacksonville and had EPA Hazardous Waste Codes: F001 through F005 and F019 (as described in Table 1-1, page L-4 of the permit application dated April 22, 1996 and revised August 1, 1996).

The Industrial Waste Sludge Drying Beds were comprised of four beds used to dewater wastewater treatment sludges from electroplating operations (F006 hazardous waste). Each drying bed was approximately 15 feet by 18 feet. The drying beds were enclosed with retaining walls constructed of eight-inch thick concrete reinforced with Number 5 reinforcing steel on 12-inch spacings, with an underlying 10-inch gravel layer. The beds were underdrained and the liquids were returned to the industrial wastewater treatment plant. Approximately 8250 gallons of dried sludges were excavated annually from the surface impoundment.

The Domestic Waste Sludge Drying Beds and the Polishing Pond were used for the treatment and storage of sludges resulting from the treatment of F006 and F019 rinsewater from electroplating operations, F001 through F005 paint stripping and parts cleaning operations, and sludge from the aerobic digester of the domestic wastewater treatment plant. The Domestic Waste Sludge Drying

Permittee:
U. S. Naval Air Station - Jacksonville
Post Office Box 5
Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412
Permit/Certification Number: HF16-288092
Issue Date: June 26, 1997
Expiration Date: September 20, 2001

Beds consisted of five beds. Each bed was approximately 50 feet by 50 feet with a three-foot high wall constructed of eight-inch concrete blocks and reinforced with wire tire ties. The bottom of the beds was unlined and was underlain by seven inches of sand, three inches of fine gravel and six inches to 12 inches of coarse gravel.

The Polishing Pond was built in 1970 to provide additional settling for 2.36 million gallons per day of combined domestic and industrial wastewater treated effluent. The Polishing Pond was unlined and had a surface area of 3.8 acres and an average depth of 3.5 feet.

To post-close a hazardous waste storage unit (Building 101 - electroplating shop) which consisted of ninety-six (96) tank systems, fifty-six (56) of which were considered to be hazardous waste tanks, and had dimensions of 100' by 78'. The total capacity of the 56 hazardous waste tanks was approximately thirty-eight thousand (38,000) gallons. The shop ceased operations in 1990. Hazardous waste codes are listed in Attachment A.

The facility is located at the U.S. Naval Air Station in Jacksonville, Florida 32212-5000.

Permittee:
U. S. Naval Air Station - Jacksonville
Post Office Box 5
Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412
Permit/Certification Number: HF16-288092
Issue Date: June 26, 1997
Expiration Date: September 20, 2001

The following documents were used in the preparation of this permit:

1. **Meeting Minutes**, dated March 15, 1996 between representatives of the Department and Naval Air Station (NAS) Jacksonville.
2. **Application for: Closure Permit Old Plating Shop (Bldg. 101), Domestic Sludge Drying Beds, Industrial Sludge Drying Beds, and Polishing Pond** dated April 22, 1996.
3. Quality Assurance Project Plan approved June 20, 1993.
4. Revisions, dated August 1, 1996 to permit application.
5. **1996 Site Management Plan** dated August 30, 1996 (Gaskins to Caspary).
6. **Hazardous Waste Facility Closure/Post-Closure Permit Application** dated August 8, 1988 and revised June 2, 1989, October 23, 1990, November 21, 1990 and February 26, 1991.
7. **Federal Facilities Agreement** dated October 23, 1990.
8. **Naval Installation Restoration Program Plan, Naval Air Station, Jacksonville, Florida, Volume 1, Organization and Planning, September 1991**, by Geraghty and Miller, Inc.
9. Revisions, dated February 26, 1997 to permit application.
10. Requested Changes, dated April 8, 1997, to Post-closure Permit HF16-288092.
11. Affidavit, dated May 14, 1997, requesting deletion of groups of parameters from Appendix IX sampling for the Domestic Sludge Drying Bed, Industrial Sludge Drying Bed and Polishing Pond.
12. Change, dated June 19, 1997, to signing date of draft Record of Decision (ROD).

Permittee:
U. S. Naval Air Station - Jacksonville
Post Office Box 5
Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412
Permit/Certification Number: HF16-288092
Issue Date: June 26, 1997
Expiration Date: September 20, 2001

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, and 403.859 through 403.861, Florida Statutes (F.S.). The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement actions for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in Subsections 403.087(6) and 403.722(5), F.S., the issuance of the permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department Rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, as required by Department Rules. This provision includes the operation of backup of auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department Rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:
 - a. have access to and copy any records that must be kept under conditions of the permit;

Permittee:
U. S. Naval Air Station - Jacksonville
Post Office Box 5
Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412
Permit/Certification Number: HF16-288092
Issue Date: June 26, 1997
Expiration Date: September 20, 2001

- b. inspect the facility, equipment, practices, or operations regulated or required under this permit;
- c. sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department Rules.

Reasonable times may depend on the nature of the concern being investigated.

- 8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
 - a. a description of cause of noncompliance; and,
 - b. the period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or revocation of this permit.
- 9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department Rules, except where such use is prescribed by Sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
- 10. The permittee agrees to comply with changes in Department Rules and Florida Statutes after a reasonable time for compliance provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department Rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C. shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard.
- 11. This permit is transferable only upon Department approval in accordance with Rules 62-4.120 and 62-730.300, F.A.C., as applicable. The permittee shall be liable for noncompliance of the permitted activity until the transfer is approved by the Department.
- 12. This permit or a copy thereof is required to be kept at the work site of the permitted activity.
- 13. This permit also constitutes:
 - a. determination of Best Available Control Technology (BACT).

Permittee:
U. S. Naval Air Station - Jacksonville
Post Office Box 5
Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412
Permit/Certification Number: HF16-288092
Issue Date: June 26, 1997
Expiration Date: September 20, 2001

- b. determination of Prevention of Significant Deterioration (PSD).
 - c. certification of compliance with State Water Quality Standards (Section 401, Public Law 92-500).
 - d. compliance with new Source Performance Standards.
14. The permittee shall comply with the following:
- a. Upon request, the permittee shall furnish all records and plans required under Department Rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
 - b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by this permit, copies of all reports required by this permit, and records of all data used to complete this application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department Rules.
 - c. Records of monitoring information shall include:
 - (1). the date, exact place, and time of sampling or measurements;
 - (2). the person responsible for performing the sampling or measurements;
 - (3). the dates the analyses were performed;
 - (4). the person responsible for performing the analyses;
 - (5). the analytical techniques or methods used; and,
 - (6). the results of such analyses.
15. When requested by the Department, the permittee shall, within a reasonable time, furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application dated April 22, 1996 and revised August 1, 1996 or in any report to the Department, such facts or information shall be corrected promptly.
16. The following conditions shall also apply to the hazardous waste facility permit:
- a. The following reports shall be submitted to the Department:

Permittee:
U. S. Naval Air Station - Jacksonville
Post Office Box 5
Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412
Permit/Certification Number: HF16-288092
Issue Date: June 26, 1997
Expiration Date: September 20, 2001

- (1). **Manifest Discrepancy Report.** If a significant discrepancy in a manifest is discovered, the permittee shall attempt to rectify the discrepancy. If not resolved within fifteen (15) days after the waste is received, the permittee shall immediately submit a letter report, including a copy of the manifest, to the Department.
 - (2). **Unmanifested Waste Report.** The permittee shall submit an unmanifested waste report to the Department within fifteen (15) days of receipt of unmanifested waste.
 - (3). **Biennial Report.** A biennial report covering facility activities during the previous calendar year shall be submitted to the Department pursuant to Chapter 62-730, F.A.C.
- b. Notification of any noncompliance which may endanger human health or the environment including the release of any hazardous waste that may endanger public drinking water supplies, or the occurrence of a fire or explosion from the facility which could threaten the environment or human health outside the facility, shall be reported verbally to the Department within twenty-four (24) hours, and a written report shall be provided within five (5) days. The verbal report within twenty-four (24) hours shall contain the name, address, I.D. number, and telephone number of the facility, its owner or operator, the name and quantity of materials involved, the extent of any injuries, an assessment of actual or potential hazards, and the estimated quantity and disposition of recovered material. The written submission shall contain:
- (1). A description of cause of the noncompliance.
 - (2). If not corrected, the expected time of correction and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.
- c. Reports of compliance or noncompliance with, or any progress reports on, requirements contained in any compliance schedule shall be submitted no later than fourteen (14) days after each schedule date.
- d. All reports or information required by the Department by a hazardous waste permittee shall be signed by a person authorized to sign a permit application.

SPECIFIC CONDITIONS:

PART I - STANDARD REQUIREMENTS

1. All submittals in response to these conditions (except Specific Condition 2 of this Part) shall be as follows:
 - a. One (1) copy shall be sent to:

Hazardous Waste Supervisor

Permittee:
U. S. Naval Air Station - Jacksonville
Post Office Box 5
Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412
Permit/Certification Number: HF16-288092
Issue Date: June 26, 1997
Expiration Date: September 20, 2001

Department of Environmental Protection
7825 Baymeadows Way, Suite 200B
Jacksonville, Florida 32256-7590

b. One (1) copy shall be sent to:

Environmental Administrator
Hazardous Waste Regulation Section
Bureau of Solid and Hazardous Waste
M.S. 4560
Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

c. One (1) copy shall be sent to:

Environmental Administrator
Federal Facilities Group
Bureau of Waste Cleanup
M.S. 4505
Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

2. All documents submitted pursuant to the conditions of this permit shall be accompanied by a cover letter stating the name and date of the document submitted, the number(s) of the Specific Condition(s) affected, and the permit number and project name of the permit involved.
3. All submittals incorporating interpretation of geological data shall be signed and sealed by a Professional Geologist registered in the State of Florida in accordance with Chapter 492, F.S. and Rule 62-730.220(8), F.A.C.
4. The Department may modify, revoke, reissue or terminate for cause this permit. The filing of a request for a permit modification, revocation, reissuance, or termination or the notification of planned changes or anticipated noncompliance on the part of permittee does not stay the applicability or enforceability of any permit condition. The permittee may submit any subsequent revisions to the Department for approval. These revisions shall meet the requirements of Rule 62-730.290, F.A.C., and the fee requirements of Rule 62-4.050, F.A.C.
5. Prior to one hundred-eighty (180) calendar days before the expiration of this permit [Rule 62-730.260(2), F.A.C.], the permittee shall submit a complete application for the renewal of the permit on forms and in a manner prescribed by the Department unless post-closure has been completed and certified in accordance with Specific Condition V.10 and accepted by the Department.

Permittee:
U. S. Naval Air Station - Jacksonville
Post Office Box 5
Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412
Permit/Certification Number: HF16-288092
Issue Date: June 26, 1997
Expiration Date: September 20, 2001

6. The Department of Environmental Protection's 24-hour emergency telephone number is (904)413-9911. During normal business hours, the DEP District Office may be contacted at (904)448-4320.
7. The facility shall comply with 40 CFR Parts 260 through 268 and those conditions required by 40 CFR Parts 270.30 and .31 (Rule 62-730.280, F.A.C.).
8. The permittee shall revise "Part I - General" of the **Application for a Hazardous Waste Facility Permit** [DEP Form 62-730.900(2)(a)] within thirty (30) days of any changes in the Part I. The revised "Part I - General" must be submitted to the Department within thirty (30) days of such changes.
9. The permittee shall follow the emergency procedures required by 40 CFR Part 264.56. The permittee shall give proper notification to the Department if an emergency situation arises, and within fifteen (15) calendar days, must submit to the Department a written report which included all information required in 40 CFR Part 264.56(j).
10. Before transferring ownership or operation of this facility during the post-closure period, the permittee must notify the new owner or operator in writing of the requirements of 40 CFR Part 264 and Rule 62-730, F.A.C. [40 CFR Part 264.12(c)] The permittee shall comply with Rule 62-730.300, F.A.C.
11. The permittee shall comply with the security provisions of 40 CFR Part 264.14 and the site security provisions in Attachment G of the permit application dated April 22, 1996 and revised August 1, 1996. This site is a suspected or confirmed contaminated site where there may be a risk of exposure to the public, and therefore, the permittee must comply with the warning sign requirements of Section 403.7255, F.S. and Rule 62-730.181(3), F.A.C.
 - a. Warning signs shall be at least 2 feet by 2 feet, made of a durable weather resistant material, with a white background and red lettering of a size indicated as follows:

2" Letters----->

**WARNING
NO TRESPASSING!**

1" Letters----->

**CONTAMINATED AREA
AVOID CONTACT WITH
SOIL AND WATER
FOR INFORMATION
(904)448-4320**

- b. Warning signs shall be placed at all entrances and other access points and around the perimeter of any contaminated sites, treatment system areas, waste site study areas and sites with hazardous waste covers, at intervals of no greater than 100 feet and in sufficient numbers as to be seen from any approach.

Permittee:
U. S. Naval Air Station - Jacksonville
Post Office Box 5
Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412
Permit/Certification Number: HF16-288092
Issue Date: June 26, 1997
Expiration Date: September 20, 2001

- c. The permittee is responsible for supplying, installing and maintaining the warning signs.
12. The permittee shall visually inspect the facility emergency and safety equipment in accordance with 40 CFR Part 264.15 and Attachment I of the permit application for Permit HO16-232028 during post-closure activities.
13. Facility personnel must successfully complete the approved training program indicated in Attachment K of the permit application dated April 22, 1996 and revised August 1, 1996, within six (6) months of employment or assignment to a facility or to a new position at the facility. Verification of this training must be kept with the personnel training records and maintained on-site. Personnel shall not work unsupervised until training has been completed. The training must be reviewed by facility personnel at least annually. The permittee shall maintain an updated list of personnel handling hazardous waste and their respective job titles at the site [40 CFR Part 264.16].
14. The permittee shall comply with the following conditions concerning preparedness and prevention:
- a. At a minimum, the permittee shall have the equipment available at the facility which are described in the Contingency Plan in Attachment D of the permit application dated April 22, 1996 and revised August 1, 1996, as required by 40 CFR Part 264.32.
 - b. The permittee shall test and maintain the equipment specified in Specific Condition 16.a. of this Part as necessary to assure its proper operation in time of emergency, as required by 40 CFR Part 264.33.
 - c. The permittee shall maintain access to the communications or alarm system, as required by 40 CFR Part 264.34.
 - d. The permittee shall maintain arrangements with state and local authorities as required by 40 CFR Part 264.37. If state or local officials refuse to enter into preparedness and prevention arrangements with the permittee, the permittee must document this refusal in the operating record.
15. The contingency plan must be reviewed periodically and immediately amended and distributed to the appropriate agencies if any criteria in 40 CFR Part 264.54 are met. Amendments to the plan must be approved in writing by the Department.
16. The permittee shall comply with the following conditions concerning the contingency plan:
- a. The permittee shall immediately carry out the provisions of the Contingency Plan, Attachment H in the permit application dated April 22, 1996 and revised August 1, 1996, and follow the emergency procedures described by 40 CFR Part 264.56, whenever there is a fire, explosion, or release of hazardous waste or hazardous waste constituents which threatens or could threaten human health or the environment. The permittee shall give

Permittee:
U. S. Naval Air Station - Jacksonville
Post Office Box 5
Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412
Permit/Certification Number: HF16-288092
Issue Date: June 26, 1997
Expiration Date: September 20, 2001

proper notification if an emergency situation arises and, within fifteen (15) calendar days, must submit to the Department a written report which includes all information required in 40 CFR Part 264.56(j).

- b. The permittee shall comply with the requirements of 40 CFR Part 264.53.
 - c. Within seven (7) calendar days of meeting any criteria listed in 40 CFR Part 264.54(a), (b) and (c), the permittee shall amend the plan and submit the amended plan for Department approval. Any other changes to the plan must be submitted to the Department within seven (7) days of the change. All amended plans must be distributed to the appropriate agencies.
 - d. The permittee shall comply with the requirements of 40 CFR Part 264.55, concerning the emergency coordinator.
17. The permittee shall comply with the manifest requirements of 40 CFR Parts 264.71, 264.72 and 264.76.
18. The permittee shall keep a written operating record at the Building 144 at the facility which includes:
- a. the results of the waste analysis;
 - b. a summary report and details of incidents that require implementation of the contingency plan;
 - c. manifests and the land-ban certification;
 - d. the results of inspections;
 - e. the post-closure plan;
 - f. biennial reports; and,
 - g. monitoring, testing, or analytical data where required by 40 CFR Part 264 Subparts F and G, and 40 CFR Part 264.228.
19. In the event that the permittee treats, stores, or disposes of hazardous wastes onsite where such wastes were generated, then the permittee must comply with 40 CFR Part 264.73(b) (9), and the permittee must certify, no less often than annually, that:
- a. the permittee has a program in place to reduce the volume and toxicity of hazardous waste generated to the degree determined by the permittee to be economically practicable;

Permittee:
U. S. Naval Air Station - Jacksonville
Post Office Box 5
Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412
Permit/Certification Number: HF16-288092
Issue Date: June 26, 1997
Expiration Date: September 20, 2001

- b. the proposed method of treatment, storage or disposal is the most practicable method available to the permittee which minimizes the present and future threat to human health and the environment; and,
 - c. the permittee shall maintain copies of certification in the facility operating record as required by 40 CFR 264.73(b)(9).
20. If the waste minimization program, as detailed in Specific Conditions 19a and 19b of this Part, is applicable then the permittee shall, at a minimum, address the following elements:
- a. **Top management support**
 - 1). a dated and signed policy describing management support for waste minimization and for implementation of a waste minimization plan,
 - 2). a description of employee awareness and training programs designed to involve employees in waste minimization planning and implementation to maximize the extent feasible, and
 - 3). a description of how a waste minimization plan has been incorporated into management practices so as to ensure ongoing efforts with respect to produce design, capital planning, production operations, and maintenance;
 - b. **Characterization of waste generation**

identification of types, amounts, and hazardous constituents of waste streams, with the source and date of generation;
 - c. **Periodic waste minimization assessments**
 - 1). identification of all points in a process where materials can be prevented from becoming a waste, or can be recycled,
 - 2). identification of potential waste reduction and recycling techniques applicable to each waste, with a cost estimate for capital investment and implementation,
 - 3). description of technically and economically practical waste reduction/recycling options to be implemented, and a planned schedule for implementation,
 - 4). specific performance goals, preferably quantitative, for the source reduction of waste by stream. Whenever possible, goals should be stated as weight of waste generated per standard unit of production, as defined by the generator.
 - d. **Cost allocation system**

Permittee:
U. S. Naval Air Station - Jacksonville
Post Office Box 5
Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412
Permit/Certification Number: HF16-288092
Issue Date: June 26, 1997
Expiration Date: September 20, 2001

- 1). identification of waste management costs for each waste, factoring in liability, transportation, recordkeeping, personnel, pollution control, treatment, disposal, compliance, and oversight costs to the extent feasible,
- 2). description of how departments are held accountable for the wastes they generate,
- 3). comparison of waste management costs with costs of potential reduction and recycling techniques applicable to each waste;

e. Technology transfer

- 1). description of efforts to seek and exchange technical information on waste minimization from other parts of the company, other firms, trade associations, technical assistance programs, and professional consultants;

f. Program evaluation

- 1). description of types and amounts of hazardous waste reduced or recycled,
- 2). analysis and quantification of progress made relative to each performance goal established and each reduction technique to be implemented,
- 3). amendments to waste minimization plan and explanation,
- 4). explanation and documentation of reduction efforts completed or in progress before development of the waste minimization plan, and
- 5). explanation and documentation regarding impediments to hazardous waste reduction specific to the individual facility.

A Pollution Prevention Plan prepared in accordance with Department of Navy requirements is acceptable in lieu of a separate Waste Minimization Plan.

PART II - CLOSURE

1. The Sludge Drying Beds and the Polishing Pond shall be closed as approved in Section T of the **Hazardous Waste Facility Closure/Post-Closure Permit Application** dated August 8, 1988 and revised June 2, 1989, October 23, 1990, November 21, 1990 and February 26, 1991.
2. The Department shall be notified seven (7) calendar days prior to taking soil samples. Where the sampling will occur over an extended period on an intermittent basis, such as sampling to determine effectiveness of treatment, a one-time notification covering an extensive sampling period is acceptable.

Permittee:
U. S. Naval Air Station - Jacksonville
Post Office Box 5
Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412
Permit/Certification Number: HF16-288092
Issue Date: June 26, 1997
Expiration Date: September 20, 2001

3. The permittee shall maintain a daily log of closure activities on-site throughout the closure period. Closure activities shall be reported to the Department on a quarterly basis in accordance with the **Federal Facilities Agreement** dated October 23, 1990.
4. Within sixty (60) calendar days of the completion of closure, the permittee shall submit to the Department, by certified mail or hand delivery, a report signed by the permittee and an independent Professional Engineer registered in the State of Florida, stating that the name of unit has been closed in compliance with the Closure Plan and the specific conditions of this permit (40 CFR Part 264.115). The Closure Certification must be based on the Professional Engineer's own observation and knowledge of the closure activities. The Certification of Closure must include, but not be limited to, the following:
 - a. Sampling data to verify closure;
 - b. Decontamination data;
 - c. Closure activities log (Specific Condition II.5);
 - d. Copies of manifests for removal of all hazardous wastes; and,
 - e. Groundwater monitoring data summary.
5. The permittee shall continue to submit progress reports throughout the closure period, with copies submitted quarterly to the Department. Each report must be submitted to the Department by the tenth (10th) day of each quarter for the preceding quarter until the acceptance of physical closure by the Department. Any deviation from schedule or described tasks shall be fully documented in the report. The quarterly report may be submitted as part of the Partnership quarterly meeting minutes.
6. All sampling and analytical procedures shall be done in accordance with the revised Quality Assurance Project Plan approved by the Department on June 20, 1993. The permittee shall revise the Quality Assurance Project Plan in accordance with Rule 62-160.220, F.A.C. The revised plan or revisions must be submitted to the Department for approval within thirty (30) calendar days of any necessary changes.
7. The permittee shall notify the Northeast District Office at least seven (7) calendar days in advance of any physical closure activities. When physical closure activities will occur over an extended period on an intermittent basis, a one-time notification is acceptable. Submittal as a part of the Partnership quarterly meeting minutes is acceptable.
8. The permittee shall notify the Department within seven (7) calendar days of the determination that actions undertaken as part of closure or associated monitoring programs no longer satisfy the requirements set forth in this permit. If the Department determines that a modification of the permit is required, the permittee shall, within sixty (60) calendar days, submit an application for a permit modification in accordance with Rules 62-730.290 and 62-4.050, F.A.C.

Permittee:
U. S. Naval Air Station - Jacksonville
Post Office Box 5
Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412
Permit/Certification Number: HF16-288092
Issue Date: June 26, 1997
Expiration Date: September 20, 2001

PART III - GROUNDWATER MONITORING

1. The permittee shall comply with the requirements of 40 CFR Part 264.97.
2. The Waste Management Areas [40 CFR Part 264.95(b)] shall be designated by imaginary lines circumscribing the Sludge Drying Beds and the Polishing Pond, indicated in Figure U-3 of the permit application dated April 22, 1996 and revised August 1, 1996 and February 26, 1997.
3. The Point of Compliance [40 CFR Part 264.95(a)] shall be northern and eastern boundaries of the Sludge Drying Beds and the Polishing Pond.
4. The Point-of-Compliance (POC) wells are as follows:
 - a. The background well for all Waste Management Areas shall be monitor well NAS 4-9.
 - b. The POC wells for the Sludge Drying Beds shall be monitor wells NAS 4-4, NAS 4-5 and NAS 4-12D (for the Industrial Sludge Drying Bed) and NAS 41-2, NAS 41-3, NAS 41-4, NAS 41-6 (for the Domestic Sludge Drying Bed).
 - c. The POC wells for the Polishing Pond shall be monitor well 42-5, 42-6D, 42-7 and the well required by Specific Condition 21 of this Part. If groundwater elevations indicate a change in groundwater flow direction of the surficial aquifer, the Department may require the installation of additional monitoring wells and revisions to the Groundwater Monitoring Plan.
5. Upon permit issuance the facility shall be in compliance monitoring in accordance with 40 CFR Part 264.99.
6. The Compliance Period is the number of years equal to the active life of the Sludge Drying Beds and the Polishing Pond, including any waste management activity prior to permitting, and the closure period. The Compliance Period is specified as follows [40 CFR Part 264.96]:
 - a. For the Sludge Drying Beds, the Compliance Period began February 25, 1988 and shall be twenty-six (26) years.
 - b. For the Polishing Pond, the Compliance Period began April 13, 1990 and shall be twenty-six (26) years.

Pursuant to 40 CFR Part 264.96(c), if the permittee is engaged in a corrective action program at the end of the Compliance Period, the Compliance Period is extended until the permittee can demonstrate that the Groundwater Protection Standard of 40 CFR Part 264.92 has not been exceeded for a period of three consecutive years.

Permittee:
U. S. Naval Air Station - Jacksonville
Post Office Box 5
Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412
Permit/Certification Number: HF16-288092
Issue Date: June 26, 1997
Expiration Date: September 20, 2001

7. Upon permit issuance the permittee shall use the following schedule for groundwater sampling:
- a. For the Sludge Drying Beds, the permittee shall sample background well NAS 4-9 and monitor wells NAS 4-4, NAS 4-5 and NAS 4-12D (for the Industrial Sludge Drying Bed) and NAS 41-3, NAS 41-4, NAS 41-6 and NAS-41-2
 - b. For the Polishing Pond, the permittee shall sample background well NAS 4-9 and monitor wells 42-5R, 42-6R, 42-7R, 42-8-2R and MW-017.

Sampling shall be conducted in January and July of the first year following permit issuance and annually thereafter in January until the Department accepts the Certification of Post-closure.

8. The permittee shall submit to the Department groundwater monitoring reports that include information pursuant to Specific Condition 7. The groundwater monitoring data from the January sampling event shall be submitted no later than the last day of March; data from the July sampling event shall be submitted no later than the last day of September. If, for any reason, the permittee is unable to submit analyses within the specified time, the permittee must comply with General Condition 8.
9. The permittee shall measure groundwater elevations every time any well is sampled [40 CFR Part 264.97(f)]. All groundwater elevations must be measured within the same 8-hour period. These data shall be used to determine the horizontal and vertical groundwater flow directions and flow rates. The permittee shall submit these data to the Department with each monitoring report.
10. Total depths of all wells must be determined by physical measurement in January of each year to determine if siltation has occurred in any well. If infilling or siltation of any well has occurred, the discovery and any redevelopment shall be reported to the Department within fifteen (15) calendar days of such action.
11. All groundwater sampling shall be conducted in accordance with the most-recently approved Quality Assurance Project Plan. The permittee shall revise the Quality Assurance Project Plan in accordance with Chapter 62-160, F.A.C., whenever there is a change in sampling and/or analytical procedures, including personnel or laboratory. The revised plan or revisions, along with the permit modification fee pursuant to Rule 62-4.050(4)(r)5, F.A.C., must be submitted to the Department for approval within thirty (30) days of such changes.
12. The permittee shall sample all wells specified in Specific Condition 7 of this Part for the following parameters:

benzene	cresols, total	2-ethoxyethanol
---------	----------------	-----------------

Permittee:
 U. S. Naval Air Station - Jacksonville
 Post Office Box 5
 Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412
 Permit/Certification Number: HF16-288092
 Issue Date: June 26, 1997
 Expiration Date: September 20, 2001

carbon disulfide	1,2-dichlorobenzene	ethylene dibromide
carbon tetrachloride	1,1-dichloroethane	isobutanol
chlorobenzene	1,2-dichloroethane	methyl ethyl ketone
chloroform	1,2-dichloropropane	methylene chloride
nitrobenzene	toluene	1,2,3-trichloropropane
2-nitropropane	1,1,1-trichloroethane	1,1,2-trichloro-1,1,2-trifluoroethane
phenols, total	1,1,2-trichloroethane	vinyl chloride
pyridine	trichloroethene	xylene, total
tetrachloroethene	trichlorofluoromethane	arsenic
barium	lead	silver
cadmium	manganese	sodium
chromium, total	mercury	vanadium
copper	nickel	zinc
iron	selenium	chloride
cyanide, complexed	nitrate (as N)	specific conductance
fluoride	radium 226	total coliform
gross alpha	radium 228	turbidity
gross beta	pH	

13. The Groundwater Protection Standard (GWPS) for these parameters will be as follows:

Parameter	Units	GWPS
benzene	µg/l	1
carbon disulfide	µg/l	700
carbon tetrachloride	µg/l	3
chlorobenzene	µg/l	100
chloroform	µg/l	6
cresols, total	µg/l	35*
1,2-dichlorobenzene	µg/l	10
1,1-dichloroethane	µg/l	70
1,2-dichloroethane	µg/l	3
1,2-dichloropropane	µg/l	5
2-ethoxyethanol	µg/l	25,000
ethylene dibromide	µg/l	0.02
isobutanol	µg/l	2,100
methyl ethyl ketone	µg/l	4,200

Permittee:
 U. S. Naval Air Station - Jacksonville
 Post Office Box 5
 Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412
 Permit/Certification Number: HF16-288092
 Issue Date: June 26, 1997
 Expiration Date: September 20, 2001

methylene chloride	µg/l	5
nitrobenzene	µg/l	9.5
2-nitropropane	µg/l	PQL★
phenols, total	µg/l	PQL★
pyridine	µg/l	7
tetrachloroethene	µg/l	3
toluene	µg/l	40
1,1,1-trichloroethane	µg/l	200
1,1,2-trichloroethane	µg/l	5
trichloroethene	µg/l	3
trichlorofluoromethane	µg/l	2,100
1,2,3-trichloropropane	µg/l	42
1,1,2-trichloro-1,1,2-trifluoroethane	µg/l	500,000
vinyl chloride	µg/l	1
xylene, total	µg/l	20
arsenic	mg/l	0.05
barium	mg/l	2
cadmium	mg/l	0.005
chromium, total	mg/l	0.1
copper	mg/l	1
iron	mg/l	0.5
lead	mg/l	0.015
manganese	mg/l	0.05
mercury	mg/l	0.002
nickel	mg/l	0.1
selenium	mg/l	0.05
silver	mg/l	0.1
sodium	mg/l	160
vanadium	mg/l	0.049
zinc	mg/l	5
chloride	mg/l	250
cyanide, complexed	mg/l	200
fluoride	mg/l	2,000
gross alpha	pCi/l	15
gross beta	pCi/l	PQL

Permittee:
U. S. Naval Air Station - Jacksonville
Post Office Box 5
Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412
Permit/Certification Number: HF16-288092
Issue Date: June 26, 1997
Expiration Date: September 20, 2001

nitrate (as N)	mg/l	10
radium 226	pCi/l	5**
radium 228	pCi/l	5**

*This standard is the most conservative of the three isomers.

★Practical Quantitation Limit, which is defined as minimum concentration of a chemical that can be measured and reported in accordance with the Quality Assurance Project Plan approved on June 20, 1993.

**The Groundwater Protection Standard is for radium.

14. The permittee shall utilize the statistical analyses outlined on pages U-45 and U-46 of the permit application dated April 22, 1996 and revised August 1, 1996 and February 27, 1997 to determine significant evidence of contamination for any constituents listed in Specific Condition 12 of this Part in accordance with 40 CFR Part 264.99.
15. The permittee shall determine in January of each calendar year the concentration of each constituent from the 40 CFR Part 264 Appendix IX list, less pesticides, herbicides, PCBs, dioxins, furans and sulfide. This sampling shall be conducted at the point-of-compliance well or wells most representative of the groundwater quality at each Waste Management Area, as approved by the Department based on the groundwater monitoring conducted pursuant to Specific Condition 7 of this Part [40 CFR Part 264.99(g)].
16. Pursuant to Specific Condition 15 of this Part if the permittee finds 40 CFR Part 264 Appendix IX constituents (less pesticides, herbicides, PCBs, dioxins, furans and sulfide) in the groundwater that are not identified in Specific Condition 11 of this Part, the permittee may resample within one month and repeat the Appendix IX analysis for those contested constituents. If the second analysis confirms the presence of new constituents, the permittee must report the concentration of these additional constituents to the Department within seven (7) calendar days and add them to the monitoring list. If the permittee chooses not to resample, then the permittee must report the concentrations of these additional constituents to the Department within seven (7) calendar days after completion of the initial analysis and add them to the monitoring list [40 CFR Part 264.99(g)].
17. The permittee may request that the Department establish alternate concentration limits. The Groundwater Protection Standard for these additional constituents shall be the respective Florida Groundwater Guidance Concentration or, if none exists, the practical quantitation limit (PQL) unless the Department establishes such alternate concentration limits, or unless a maximum concentration level is specified in Rule 62-550.310 and .320, F.A.C. or 40 CFR Part 141.
18. The permittee shall notify the Department in writing of any damage requiring repair (not maintenance) to the groundwater monitor wells and provide a schedule for repair within

Permittee:
U. S. Naval Air Station - Jacksonville
Post Office Box 5
Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412
Permit/Certification Number: HF16-288092
Issue Date: June 26, 1997
Expiration Date: September 20, 2001

seven (7) calendar days. A description of repairs shall be provided within seven (7) calendar days after the damage has been corrected.

19. Abandonment of monitor wells shall be performed in accordance with Rule 62-532.500(4), F.A.C.
20. Within thirty (30) days of permit issuance, the permittee must submit to the Department a well installation report that includes, at a minimum, the following information on 42-5R, 42-6R, 42-7R, 42-8-2R and MW-017:
 - a. A surveyed location map of all new and existing wells with correct orientation and scale;
 - b. A description of the protective device for MW-017;
 - c. Well development procedures (for MW-017 only);
 - d. Disposal of boring soils, drilling muds and fluids, and purge water (for MW-017 only).

PART IV - POST-CLOSURE

1. Upon the completion of closure of the Domestic Sludge Drying Bed, the Industrial Sludge Drying Bed and the Polishing Pond, the permittee shall:
 - a. Begin post-closure care and continue for thirty (30) years after that date in accordance with 40 CFR Part 264.117(a) and in accordance with the post-closure plan included in the application.
 - b. Maintain compliance with security provisions of 40 CFR Part 264.14 throughout the post-closure care period [40 CFR Part 264.117(b)].
 - c. Never disturb the final cover or any other components of the associated structures unless previous Department approval has been provided pursuant to 40 CFR Part 264.117(c).
 - d. Ensure that all post-closure care activities be in accordance with the post-closure plan as specified in 40 CFR Part 264.118 [40 CFR Part 264.117(d)].
2. The permittee may apply for a shortened post-closure care period in accordance with 40 CFR Part 264.117(a)(2)(i). However, the Department may extend the post-closure care period if it is determined that the extended period is necessary to protect human health and the environment in accordance with 40 CFR Part 264.117(a)(2)(ii).
3. No later than the submittal of the certification of closure (Specific Condition II.4), the permittee shall submit a survey plat in accordance with 40 CFR Part 264.116.

Permittee:
U. S. Naval Air Station - Jacksonville
Post Office Box 5
Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412
Permit/Certification Number: HF16-288092
Issue Date: June 26, 1997
Expiration Date: September 20, 2001

4. Within sixty (60) calendar days of certification of closure (Specific Condition II.4) the permittee shall submit to the authority with jurisdiction over Naval Air Station - Jacksonville land use, and to the Department, a record of the type, location, and quantity of hazardous wastes disposed of within the Industrial Sludge Drying Bed, the Domestic Sludge Drying Bed, the Polishing Pond and Building 101 (Former Electroplating Shop). For hazardous wastes disposed of before January 12, 1981, the owner or operator must identify the type, location, and quantity of the hazardous wastes to the best of his/her knowledge and in accordance with any records s/he has kept [40 CFR Part 264.119(a)] (notice to local land authority). If there is no local authority with jurisdiction over Naval Air Station - Jacksonville land use, the permittee must submit an alternate method for recording the type, location, and quantity of hazardous wastes disposed of within the Industrial Sludge Drying Bed, the Domestic Sludge Drying Bed and the Polishing Pond acceptable under the Record Of Decision (ROD).
5. The permittee shall comply with the requirements of 40 CFR Part 264.119(b) (Notice in deed to property). The notice shall be submitted to the Department within sixty (60) calendar days of receipt of certification of closure of the Industrial Sludge Drying Bed, the Domestic Sludge Drying Bed and the Polishing Pond. If the permittee cannot file a notice in the deed, the permittee must submit an alternate method for the notice requirement acceptable under the ROD.
6. Complete inspection log describing results of inspections and remedial action taken in maintaining the final cover, containment structures, groundwater monitoring equipment, surveying benchmarks and security devices in order to comply with 40 CFR Part 264.117(a) shall be maintained in the operating record.
7. The permittee shall keep a copy of the Post-closure Plan required by 40 CFR Part 264.118(a), and all revisions to the plan at the facility until post-closure care is completed and certified in accordance with 40 CFR Part 264.120 and accepted by the Department.
8. Any proposed amendments to the Post-closure Plan shall be submitted to the Department for review and approval [40 CFR Part 264.118(d)]. All documents modifying the approved Post-closure Plan submitted to the Department for review shall be signed, sealed, and certified by a Professional Engineer registered in the State of Florida, in accordance with Section 471, F.S., and Rule 62-730.220(7), F.A.C.
9. Within sixty (60) calendar days from the completion of the established post-closure care period, the permittee shall submit to the Department by certified mail or hand delivery, a letter signed by the permittee and an independent Professional Engineer, registered in the State of Florida, except when exempted, in accordance with 62-730.220(5), F.A.C., stating that the post-closure care for the Sludge Drying Beds and the Polishing Pond was performed in accordance with the specifications in the approved Post-closure Plan [40 CFR Part 264.120].
10. By no later than December 31, 1997, the permittee shall submit to the Department the draft ROD including a complete post-closure plan.

Permittee:
U. S. Naval Air Station - Jacksonville
Post Office Box 5
Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412
Permit/Certification Number: HF16-289092
Issue Date: June 26, 1997
Expiration Date: September 20, 2001

PART V - CORRECTIVE ACTION

1. The permittee shall submit to the Department the **OU2 Final Feasibility Study** to meet the requirements of 40 CFR Part 264.100. The document shall be submitted no later than April 7, 1997, along with the appropriate fee.
2. The permittee shall ensure that the Corrective Action Program will function as designed in the Corrective Action Plan. If the permittee or Department determines that the Corrective Action Plan no longer satisfies the requirements of 40 CFR Part 264.100, the permittee must, within ninety (90) calendar days, submit a permit modification to make any appropriate changes to the program [40 CFR Part 264.100(h)]. Any measures taken to meet this condition shall be reported in the semiannual report required by Specific Condition 3 of this Part.
3. The permittee shall ensure that groundwater monitoring and corrective action measures necessary to achieve compliance with 40 CFR Part 264.100 are taken during the Compliance Period. The Compliance Period began February 25, 1988 for the Sludge Drying Beds and April 30, 1990 for the Polishing Pond.
4. The permittee must continue corrective action measures throughout the Compliance Period to the extent necessary to ensure that the Groundwater Protection Standard is not exceeded. If the permittee is engaged in a corrective action program at the end of the Compliance Period, the Compliance Period is extended until the permittee can demonstrate that the Groundwater Protection Standard of 40 CFR Part 264.92 has not been exceeded for a period of three (3) consecutive years.
5. If corrective action is terminated prior to the completion of the post-closure care period, this permit shall be modified to address at a minimum, semiannual sampling for the first year, with annual sampling throughout the remainder of the post-closure care period.

PART VI - GROUNDWATER MONITORING AT THE HAZARDOUS WASTE STORAGE UNIT (BUILDING 101 - ELECTROPLATING SHOP).

1. The permittee shall comply with the requirements of 40 CFR Part 264.97.
2. The Waste Management Area [40 CFR Part 264.95(b)] shall be designated by an imaginary line circumscribing the hazardous waste storage unit, indicated in Figure U-1 of the permit application dated April 22, 1996 and revised August 1, 1996 and February 26, 1997.
3. The Point of Compliance [40 CFR Part 264.95(a)] shall be the southern boundary of the hazardous waste storage unit.
4. Upon permit issuance the facility shall be in compliance monitoring in accordance with 40 CFR Part 264.99.

Permittee:
U. S. Naval Air Station - Jacksonville
Post Office Box 5
Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412
Permit/Certification Number: HF16-288092
Issue Date: June 26, 1997
Expiration Date: September 20, 2001

5. The Compliance Period is the number of years equal to the active life of Building 101 - electroplating shop, including any waste management activity prior to permitting, and the closure period. The Compliance Period is specified as 56 years, 5 months and 20 days (January 1, 1940 until May 20, 1996) [40 CFR Part 264.96].
6. Within fifteen (15) calendar days of permit issuance, the permittee shall install monitor wells shown on Figure U-1 of the permit application dated April 22, 1996 and revised August 1, 1996 and February 26, 1997. The wells shall be installed in accordance with the most recent edition of the **RCRA Ground-water Monitoring Technical Enforcement Guidance Document** (OSWER-9950.1).
7. Within thirty (30) days of installation of the monitor wells necessary to comply with Specific Condition 6 of this Part the permittee must submit to the Department a well installation report that includes, at a minimum, the following information:
 - a. A **Well Construction Summary Report** [Form 62-730.900(2)(b)] for each well;
 - b. A surveyed location map of all new and existing wells with correct orientation and scale;
 - c. A description of protective devices for each well;
 - d. Well development procedures and duration of well development;
 - e. Disposal of boring soils, drilling muds and fluids, and purge water;
 - f. Detailed lithologic logs including soils classification used, the geologist or geotechnical person responsible for compiling the lithologic logs, and sampling devices and intervals.
8. The permittee shall sample the wells in Specific Conditions 6 and 7 of this Part for the parameters listed in Specific Condition 12 of this Part and shall be conducted in July, October, January and April of the first year and annually thereafter in July until the Department accepts the Certification of Post-closure. The groundwater monitoring data from the July sampling event shall be submitted no later than the last day of September; data from the October sampling event shall be submitted no later than the last day of December; the groundwater monitoring data from the January sampling event shall be submitted no later than the last day of March; data from the April sampling event shall be submitted no later than the last day of June. If, for any reason, the permittee is unable to submit analyses within the specified time, the permittee must comply with General Condition 8.
9. The permittee shall measure groundwater elevations every time any well is sampled [40 CFR Part 264.97(f)]. All groundwater elevations must be measured within the same 8-hour period. These data shall be used to determine horizontal and vertical groundwater flow directions and flow rates. The permittee shall submit these data to the Department with each monitoring report.

Permittee:
 U. S. Naval Air Station - Jacksonville
 Post Office Box 5
 Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412
 Permit/Certification Number: HF16-288092
 Issue Date: June 26, 1997
 Expiration Date: September 20, 2001

10. Total depths of all wells must be determined by physical measurement in January of each year to determine if siltation has occurred in any well. If infilling or siltation of any well has occurred, the discovery and any redevelopment shall be reported to the Department within fifteen (15) calendar days of such action.
11. All groundwater sampling shall be conducted in accordance with the Quality Assurance Project Plan approved on June 20, 1993. The permittee shall revise the Quality Assurance Project Plan in accordance with Chapter 62-160, F.A.C., whenever there is a change in sampling and/or analytical procedures, including personnel or laboratory. The revised plan or revisions must be submitted to the Department for approval within thirty (30) days of such changes.
12. The permittee shall sample all wells specified in Specific Conditions 6 and 7 of this Part for the following parameters:

benzene	1,1,1-trichloroethane
carbon disulfide	1,1,2-trichloroethane
carbon tetrachloride	trichloroethene
1,2-dichlorobenzene	trichlorofluoromethane
1,3-dichlorobenzene	1,1,2-trichloro-1,2,2-trifluoroethane
1,4-dichlorobenzene	vinyl chloride
dichlorodifluoromethane	barium
1,1-dichloroethane	cadmium
1,2-dichloroethane	chromium, total
<i>cis</i> -1,2-dichloroethene	chromium, hexavalent
<i>trans</i> -1,2-dichloroethene	copper
2-ethoxyethanol	iron
isobutanol	lead
methyl ethyl ketone	manganese
methylene chloride	nickel
2-methylphenol	selenium
3-methylphenol	silver
4-methylphenol	vanadium
nitrobenzene	zinc
2-nitropropane	cyanide, complexed
pyridine	pH
tetrachloroethene	specific conductance
toluene	turbidity

Permittee:
 U. S. Naval Air Station - Jacksonville
 Post Office Box 5
 Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412
 Permit/Certification Number: HF16-288092
 Issue Date: June 26, 1997
 Expiration Date: September 20, 2001

13. The Groundwater Protection Standard (GWPS) for these parameters will be as follows:

Parameter	GWPS	Parameter	GWPS
benzene, µg/l	1	tetrachloroethene, µg/l	3
carbon disulfide, µg/l	700	toluene, µg/l	40
carbon tetrachloride, µg/l	3	1,1,1-trichloroethane, µg/l	200
1,2-dichlorobenzene, µg/l	600	1,1,2-trichloroethane, µg/l	5
1,3-dichlorobenzene, µg/l	10	trichloroethene, µg/l	3
1,4-dichlorobenzene, µg/l	75	trichlorofluoromethane, µg/l	2,100
dichlorodifluoromethane, µg/l	1400	1,1,2-trichloro-1,2,2-trifluoroethane, µg/l	500,000
1,1-dichloroethane, µg/l	70	vinyl chloride, µg/l	1
1,2-dichloroethane, µg/l	3	barium, mg/l	2
cis-1,2-dichloroethene, µg/l	70	cadmium, mg/l	0.005
trans-1,2-dichloroethene, µg/l	100	chromium, total, mg/l	0.1
2-ethoxyethanol, µg/l	25,000	chromium hexavalent, mg/l	0.1**
isobutanol, µg/l	2,100	copper, mg/l	1
methyl ethyl ketone, µg/l	4,200	iron, mg/l	0.5
methylene chloride, µg/l	5	lead, mg/l	0.015
2-methylphenol, µg/l	350	manganese, mg/l	0.05
3-methylphenol, µg/l	350	nickel, mg/l	0.1
4-methylphenol, µg/l	35	selenium, mg/l	0.05
nitrobenzene, µg/l	9.5	silver, mg/l	0.1
2-nitropropane, µg/l	BG*	vanadium, mg/l	0.049
pyridine, µg/l	7	zinc, mg/l	5

*Background, established through sampling at the upgradient background well each time groundwater is sampled at the Point of Compliance. The background concentration limit shall be the mean of the four most recent background samples of the parameter [40 CFR Part 264.98(d)].

**This value, for total chromium, will also apply to hexavalent chromium.

14. The permittee shall determine in January of each calendar year the concentration of each constituent from the 40 CFR Part 264 Appendix IX list, less pesticides, herbicides, PCBs, dioxins, furans and sulfide. This sampling shall be conducted at the point-of-compliance

Permittee:
U. S. Naval Air Station - Jacksonville
Post Office Box 5
Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412
Permit/Certification Number: HF16-288092
Issue Date: June 26, 1997
Expiration Date: September 20, 2001

well or wells most representative of the groundwater quality at each Waste Management Area, as approved by the Department based on the groundwater monitoring conducted pursuant to Specific Condition 7 of this Part [40 CFR Part 264.99(g)].

15. Pursuant to Specific Condition 14 of this Part if the permittee finds 40 CFR Part 264 Appendix IX constituents (less pesticides, herbicides, PCBs, dioxins, furans and sulfide) in the groundwater that are not identified in Specific Condition 11 of this Part, the permittee may resample within one month and repeat the Appendix IX analysis for those contested constituents. If the second analysis confirms the presence of new constituents, the permittee must report the concentration of these additional constituents to the Department within seven (7) calendar days and add them to the monitoring list. If the permittee chooses not to resample, then the permittee must report the concentrations of these additional constituents to the Department within seven (7) calendar days after completion of the initial analysis and add them to the monitoring list [40 CFR Part 264.99(g)].
16. The permittee may request that the Department establish alternate concentration limits. The Groundwater Protection Standard for these additional constituents shall be the respective Florida Groundwater Guidance Concentration or, if none exists, the practical quantitation limit (PQL) unless the Department establishes such alternate concentration limits, or unless a maximum concentration level is specified in Rule 62-550.310 and .320, F.A.C. or 40 CFR Part 141.
17. The permittee shall notify the Department in writing of any damage requiring repair (not maintenance) to the groundwater monitor wells and provide a schedule for repair within seven (7) calendar days. A description of repairs shall be provided within seven (7) calendar days after the damage has been corrected.
18. Abandonment of monitor wells shall be performed in accordance with Rule 62-532.500(4), F.A.C.
19. The permittee shall submit a Corrective Action Plan to meet the requirements of 40 CFR Part 264.100. This shall be submitted according to the time schedule set forth in the **CERCLA Site Management Plan** dated October 22, 1996.

Permittee:

U. S. Naval Air Station - Jacksonville

Post Office Box 5

Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412

Permit/Certification Number: HF16-288092

Issue Date: June 26, 1997

Expiration Date: September 20, 2001

Issued

6/26/97

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

John M. Rudell

JOHN M. RUDELL, DIRECTOR
DIVISION OF WASTE MANAGEMENT

Permittee:
U. S. Naval Air Station - Jacksonville
Post Office Box 5
Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412
Permit/Certification Number: HF16-288092
Issue Date: June 26, 1997
Expiration Date: September 20, 2001

Filing and Acknowledgment
Filed on this date, pursuant to
Section 120.52, Florida Statutes,
with the designated Clerk, receipt
of which is acknowledged.

John Papp-Wells
CLERK

1 Jul 97
DATE

This is to certify that this Notice of Permit was mailed before
close of business on 1 JUL 97.

Permittee:
U. S. Naval Air Station - Jacksonville
Post Office Box 5
Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412
Permit/Certification Number: HF16-288092
Issue Date: June 26, 1997
Expiration Date: September 20, 2001

Attachment A - Hazardous Waste Codes for Building 101 Tanks

TABLE L-1

BASIS FOR LISTING HAZARDOUS WASTE
(40 CFR 261, Appendix VII)

EPA HAZARDOUS WASTE NO.	HAZARDOUS CONSTITUENTS FOR WHICH LISTED
F001	Tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, carbon tetrachloride, chlorinated fluorocarbons
F002	Tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, 1,1,2-trichloro-1,2,2-trifluoroethane, ortho-dichlorobenzene, trichlorofluoromethane
F003	NA
F004	Cresols and cresylic acid, nitrobenzene
F005	Toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, 2-ethoxyethanol, benzene, 2-nitropropane
F006	Cadmium, hexavalent chromium, nickel, cyanide (complexed)
F019	Hexavalent chromium, cyanide (complexed)