UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

REPLY TO THE ATTENTION OF:

FEB 20 1996
FEB 20 1996

CERTIFIED MAIL Z 075 010 995
RETURN RECEIPT REQUESTED

DRP-8J

Mr. G. K. Hill, Deputy Director
Public Works Directorate
Department of the Navy
Naval Surface Warfare Center
300 Highway 361
Crane, Indiana 47522-5001

RE: Specifications and Plans
Bioremediation Facility
Naval Surface Warfare Center
Crane, Indiana
IN5 170 023 498

Dear Mr. Hill:

The United States Environmental Protection Agency (U.S. EPA) has reviewed the Specifications for the Bioremediation Facility, dated December 4, 1995, revised December 5, 1995 (SOUTHDIV ERAC Contract N62467-93-D-1106, transmittal No. 94-4324-693 and 94-4324-690), and the revised February 9,1996 blueprints received February 12, 1996 (see attachment I listing). We hereby approve the design of the Bioremediation Buildings, for the use in treating Solid Waste or Contaminated Media, with the attached minor modifications (see attachment II). The Navy must supply the U.S. EPA with final construction plans prior to construction of the buildings and as-built plans after construction of the entire facility.

The current unit design can strictly be used for composting soils contaminated with hazardous constituents for the purposes of Corrective Action cleanup (i.e., managing the materials as a solid waste). If any cleanup materials exhibit a hazardous characteristic or contain a listed hazardous waste, the unit must be retrofitted, approved and constructed to meet the requirements of one of the following Resource Conservation and Recovery Act (RCRA) regulated units: a containment building; a Subpart X unit; or a Corrective Action Management Unit (CAMU). As explained in our letter to you on January 29, 1996, the current design needs some modifications or exemption requests to meet the current regulatory standards for permitting as a hazardous waste management unit.

The Agency requires an operational plan for the pilot-scale test prior to implementation, and must approve the test method before it begins. Please submit the Operational Plan as soon as possible. A revised Quality Assurance Plan strictly addressing performance testing of the pilot-scale must be included with the Operational Plan. Quality Assurance information from U.S. EPA's Region 10 office is forthcoming and shall be sent under a separate cover. A copy of the Mesh specifications must be submitted within 30 days of the date of this letter.

We would like to meet your goal of initiating the pilot-scale test in June 1996. Please notify the Indiana Department of Environmental Management of any changes proposed during construction that may affect your current solid waste landfill permit (i.e., moving leachate/sewer lines and daily cover options). Any tree removals for the facility should be performed before the May nesting season for the Indiana Bat. If you have any questions regarding this matter, please contact me at (312) 886-6146.

Sincerely,

Carol Ann Witt-Smith
Corrective Action Expert
WMB, IL/IN/MI Section

cc: Tom Linson, IDEM
Mike Sickels, IDEM
Brian Von Gunten, IDEM BRAC
Jim Hunsicker, NSWC
Tom Brent, NSWC
Adrienne Wilson, SOUTHDIV
Robert Hlavacek, Morrison Knudsen Corp.
Steve Downing, Morrison Knudsen Corp. at NSWC

ATTACHMENT I
APPROVED REVISED FEBRUARY 9,1996 BLUEPRINT PLANS
BIOREMEDIATION FACILITY

Morrison Knudsen Corporation Transmittal Letter #4324-009-007-30-152
(Plans with some hand revised details)

Site Layout Drawings by Jacobs Engineering

Cover Sheet	Drawing Title	Dwg. Date	Contractor App. Date
C-100	Master Site/Drainage Plan	11/16/95	1/96 + rev. 2/9/96
C-101	Work Area Paving Layout	12/6/95	12/6/95 + rev. 2/9/96
C-102	Compost Building Paving Layout	12/6/95	12/6/95 + rev. 2/9/96
C-103	Office/Lab Area Layout	11/29/95	1/96
C-104	Haul Road Layout & Paving Sections	12/6/95	12/6/95 + rev. 2/9/96
C-105	Work Area Drainage Plan	12/5/95	1/96 + rev. 2/9/96
C-106	Compost Building Drainage Plan	12/3/95	1/96 + rev. 2/9/96
C-107	Office/Lab Area Drainage Plan	11/29/95	1/96
C-108	Haul Road Drainage Plan & Details	1/96	1/96
C-109	Cross Sections - Sheet 1	1/96	1/96
C-110	Cross Sections - Sheet 2	1/96	1/96
C-111	Cross Sections - Sheet 3	1/96	1/96
C-112	Misc. Details	12/15/95	1/96 + rev. 2/9/96
S-100	Decon Area Concrete Plan & Sections	11/15/95	1/96 + rev. 2/9/96

Site Layout Drawings by Jacobs Engineering

Cover Sheet	Drawing Title	Dwg. Date	Contractor App. Date
S-101	Decon Area Sections & Elevations	12/1/95	1/96 + rev. 2/9/96
S-102	Decon Area Sections & Misc. Details	12/95	1/96 + rev. 2/9/96
S-103	Misc. Details	12/19/95	1/96 + rev. 2/9/96

Biofacility Building Drawings by SWI, Inc.

Cover Sheet	Drawing Title	Dwg. Date	App. Date
S-1	Site Plan	2/1/96	
F-1	Foundation Plan	2/1/96	
F-2	Foundation Sections	2/1/96	
F-3	Ramp & Sump Sections (mod: Grate must be solid and removable)	2/1/96	EPA mod. 2/16/96
A-1	Elevations	2/1/96	
A-2	Sump Details	2/1/96	

Biofacility Building Structural Steel Drawings by A&S Building Systems

Cover Sheet	Drawing Title	Dwg. Date	App. Date
F-1	Anchor Bolt Setting Plan	1/26/96	1/29/96
E-1	Roof Framing Plan	1/26/96	1/29/96
E-2	Sidewall Framing Elevations	1/26/96	1/29/96
E-3	Endwall Framing Elevations (open doorway width must be min. 35', coordinate with Jacobs and SWI Plans)	1/26/96	1/29/96 + EPA mod. 2/16/96
E-4	Endwall Sheeting Elevations	1/26/96	1/29/96
E-5	Erection Drawing	1/26/96	1/29/96

Sketches of Surface Water Run-off Ponds by Morrison-Knudsen Corp.

Cover Sheet	Sketch Description	Dwg. Date	Contractor App. Date
SK-1	Pond Plan View	2/9/96	2/9/96
SK-2	Pond Cross Section	2/9/96	2/9/96
SK-3	Pipe Cross Section	2/9/96	2/9/96
SK-4	Ballast Detail	2/9/96	2/9/96

ATTACHMENT II
BIOREMEDIATION FACILITY DESIGN MINOR MODIFICATIONS

1. Fabric Mesh

   a. Submit a manufacturing brochure on the Heavy Duty Shading Fabric.

2. Alternative Materials

   Alternative materials are subject to Navy and Agency approval, since certain construction requirements might not be substituted.

3. Sumps

   a. The grating on all sumps will be made of a solid material. This is not specified in the specific diagrams.

   b. The sumps shall be coated concrete.

4. Borrow Source

   Show on a plan map the location of the burrow source in the final construction plans.

5. Roof

   a. The roof extension beyond the building must be clearly identified in length on the final construction plans.

6. Door Opening on Bioremediation Building

   A minimum width of 35 feet for the opening on the two ends shall be constructed.