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LETTER REGARDING REGULATORY REVIEW AND APPROVAL OF FINAL FULL SCALE
CONCEPTUAL DESIGN AND PERFORMANCE SPECIFICATION IN SITU CHEMICAL
OXIDATION USING POTASSIUM PERMANGANATE AT OPERABLE UNIT 4 (OU 4) NTC
ORLANDO FL
5/4/2001
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION



Department of
Environmental Protection

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Jeb Bush
Governor

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

David B. Struhs
Secretary

May 4, 2001

Mr. Wayne Hansel
Code 18B7
Southern Division
Naval Facilities Engineering Command
P.O. Box 190010
North Charleston, South Carolina 29419-0068

RE: Final Full-Scale Conceptual Design and Performance
Specification, In-Situ Chemical Oxidation Using Potassium
Permanganate, Operable Unit 4, Area C, Naval Training
Center, Orlando, Florida

Dear Mr. Hansel:

The Department has completed its review of the Final Full-Scale Conceptual Design and Performance Specification, In-Situ Chemical Oxidation Using Potassium Permanganate, Operable Unit 4, Area C, Naval Training Center Orlando, dated March 2001 (received April 3, 2001), prepared and submitted by Harding Lawson Associates. The document is adequate for its intent. I have attached a memorandum from Greg Brown, P.E., with his comments concerning the use of this technology.

If I can be of any further assistance with this matter, please contact me at (850)488-3693.

Sincerely,

David P. Grabka
Remedial Project Manager

cc: Barbara Nwokike, Navy SouthDiv
Nancy Rodriguez, USEPA Region 4
Richard Allen, HLA, Jacksonville
Steve McCoy, Tetra Tech NUS, Oak Ridge
Steve Tsangaris, CH2M Hill, Tampa
Bill Bostwick, FDEP Central District

TJB

JJC

ESN

Memorandum

Florida Department of Environmental Protection

TO: David Grabka, Remedial Project Manager, Technical Review Section

THROUGH: Tim Bahr, P.G., Supervisor, Technical Review Section *B*

FROM: Greg Brown, P.E., Professional Engineer II *GB*
Technical Review Section

DATE: April 10, 2001

SUBJECT: Final Full-Scale Conceptual Design and Performance Specification, In-Situ Chemical Oxidation Pilot Study Using Potassium Permanganate, Operable Unit 4, Naval Training Center Orlando, Florida.

I reviewed the subject engineering document dated March 2001 (received April 3, 2001). I recently reviewed the final Feasibility Study for Operable Unit 4, dated February 2001 (received February 12, 2001), where this technology was also described and analyzed in the context of final remedy selection. I approved the Feasibility Study in a memorandum dated April 6, 2001. Dr. Willard R. Murray, Ph.D., P.E., Florida licensed Professional Engineer No. 39866, is identified as the engineer of record for the conceptual design and performance specification. The subject engineering document is adequate for its intent.

I investigated the applicability of the existing UIC variance for full-scale application of this technology. The Final Order Granting Petition for Variance is vendor specific rather than technology specific. Subsequent constructors therefore must apply for individual UIC variances even if the technology remains the same. The U.S. Navy's constructor should start the petition process as soon as possible since the Division of Water Resource Management will be responsible for issuing the Final Order. The U.S. Navy can use this certification with their petition to document an approved Remedial Action Plan for the conceptual design. Call me at (850) 488-3935 if you have questions.

GB

Gregory M. Brown, P.E.
Professional Engineer No. 42194
Expires February 28, 2003
10/10/2001
Date: _____