



DEPARTMENT OF THE NAVY  
OFFICER IN CHARGE OF CONSTRUCTION  
RESIDENT OFFICER IN CHARGE OF CONSTRUCTION  
Long Beach Area  
SOUTHWEST DIVISION, NAVAL FACILITIES ENGINEERING COMMAND  
Long Beach, California 90822-5080

N60258.000617  
NSY LONG BEACH  
SSIC # 5090.3

N68711-92-D-6173  
Ser R1/00194 IN REPLY REFER TO:  
June 13, 1994

Brown & Root Services Corporation  
4100 Clinton Drive  
Houston, Texas 77020

Subj: CONTRACT N68711-92-D-6173, D.O. # 136, WCN 45018, RELOCATE  
D.R.M.O. - SITE SPECIFIC HEALTH AND SAFETY PLAN

Gentlemen:

The Government has reviewed the Site Specific Health and Safety Plan for the subject delivery order, and is returning it to you DISAPPROVED. The enclosed remarks from the Environmental Protection Division must be incorporated and/or corrected prior to construction work.

From discussion with Mr. Bert Ninteman of Brown & Root, it is my understanding that there may be some changes in your Key Personnel, as described on page 7 of your plan. Any substitutions of personnel must be documented, and submitted to the ROICC Office as an amendment to your Site Specific Health and Safety Plan.

Your plan states that the Site Safety Officer "shall be on-site during all work phases of the project.". Work will not be allowed without an approved Site Safety Officer on-site.

If you have any questions, please contact the undersigned at (310) 547-6875.

Sincerely,

*M.A. Vieux*

M.A. VIEUX  
Ensign, Civil Engineer Corps,  
U.S. Navy  
Assistant Resident Officer  
In Charge of Construction

Encl: FACSIMILE TRANSMISSION from C. Anna Ulaszewski  
dated 13 Jun 94

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**DEPARTMENT OF THE NAVY**

LONG BEACH NAVAL SHIPYARD  
LONG BEACH, CALIFORNIA 90822-5099

**FACSIMILE TRANSMISSION**

ENVIRONMENTAL PROTECTION DIVISION

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DATE: 13 Jun 94 547-7767  
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TO: Paul Maize ROICC  
(name) (company)  
FROM: C. Anna Ulaszewski  
(name)

TOTAL NUMBER OF PAGES INCLUDING COVER SHEET: 4

SUBJ: DRMO Relocation HASP Comments

REMARKS:

. The HASP should include a route map to the nearest Hospital and the phone number.

. What HAZWOPER training, in accordance with 29 CFR 1910.120, have the on-site workers received? Should be included.

. How will the decontamination water be disposed? Easiest way is probably to place it in container(s), sample and discharge to the sewer, if sewerable. This must be coordinate with Hoa Ninh at x 8441. If not sewerable, would need to be handled as hazardous waste; coordinate this with Paul Farnham at x 7174, Treatment, Storage and Disposal Facility, Building 314.

Please call me if you have questions.

## INTRODUCTION

This Health and Safety Plan (HASP) is intended to describe measures which shall be taken to protect the field personnel and the surrounding community from exposure to potential physical and chemical hazards associated with the planned construction activities at the site. The HASP has been developed based on information available at this time. This HASP is subject to revision or amendment as the project progresses and/or additional pertinent data are obtained. The HASP has been developed in accordance with Title 26 CCR, Section 8-5192 Hazardous Waste Operations and Emergency Response.

## SITE DESCRIPTION

### Site Location

The project area is located in the eastern portion of the Long Beach Naval Shipyard (LBNSY) in Long Beach, California (Figure 1). It is a vacant lot identified as Lot X encompassing an area of approximately 120,000 square feet (2.75 acres). The surface of the ground is covered with a mixed layer of gravel and soil. There is a fence bounding the northern, eastern, and southern sides of the site. The southern side of the site extends along an asphalt-paved parking area.

### Previous Land Use

It is M&T AGRA's understanding that the area proposed for the DRMO relocation has been referred to as the Toxic Sandblast Disposal Area and was once used to deposit waste material resulting from the sandblasting of ship hulls. It may have also been used to deposit other wastes, ~~(foundry waste or hydrocarbon waste)~~. *Delete*

## BACKGROUND

M&T AGRA, Inc. conducted a limited soil investigation of the project site in March, 1994. The purpose of this investigation was to determine if contaminated materials were present which could expose field personnel engaging in the DRMO construction activities to potential chemical hazards. M&T AGRA collected samples of subsurface materials at

## Contacts for the Project

Brown & Root  
(BRSC)

Bert Ninteman, DRMO Construction Manager  
Phone: (310) 432-7395

DTSC  
(California EPA)

Alvaro Gutierrez  
Phone: (310) 590-4868

Naval Station  
Long Beach

Ens. Vieux, AROICC  
Phone: (310) 547-6875

M&T AGRA, Inc.

Rudy Coto, HazMat Director  
Phone: (714) 779-2591

## JOB HAZARDS AND RISK ASSESSMENT SUMMARY

### Chemical Hazards

Based on known conditions and available information, the following chemical compounds or constituents could be encountered during field activities at the subject site.

Petroleum Hydrocarbons - It is anticipated that petroleum hydrocarbons will be encountered based on the findings of the previous investigation performed by M&T AGRA. Contact with these hydrocarbons could cause irritation to the skin and eyes. Repeated exposure could cause sensitization.

Heavy Metals - Heavy metal concentrations may be encountered (e.g. copper, lead, mercury, and zinc). Inhalation of contaminated dust could lead to respiratory tract infection.

Volatile Organics - VOCs, such as benzene, toluene, ethyl benzene, and xylene were detected at relatively low concentrations in some of the samples. These compounds all cause central nervous system depression (decreased alertness, headaches, sleepiness, etc.), as well as dermatitis. Target organ effects include respiratory system irritation, liver, and kidney damage. Benzene suppresses bone-marrow function, causing blood changes. Chronic benzene exposure can cause leukemia.

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*Overly  
simplified & incorrect  
[see comments page 10]*

*-9-*

## Physical Hazards

Due to the planned field activities and known site conditions, certain potential physical hazards have been identified which include:

- Heat stress.
- Heavy equipment.
- Particulate dust emissions.

## Worker Risk Assessment Summary

The worker risk associated with these chemical hazards can be divided into three categories:

- Risk of ingestion.
- Risk of dermal contact.
- Risk of vapor inhalation.

Risk of Ingestion - The risk of ingestion may be minimized by utilizing proper personal hygiene techniques. No one may eat, smoke, chew gum or place any foreign matter inside the oral cavity while in the work zone. Anyone leaving the work zone shall go through the proper decontamination and/or wash-up procedures.

Risk of Dermal Contact - The risk of dermal contact during construction and handling operations shall be minimized by use of personal protective equipment (PPE) and/or clothing and attention to personal hygiene.

Risk of Vapor Inhalation - The risk of vapor inhalation during construction and handling operations shall be minimized by monitoring the work zone and making use of the appropriate respiratory protection, if required.

*This states how to minimize risk; however, for each chemical compound or constituent, routes of entry & exposure risk should be summarized.*

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