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BOOMSNUB/AIRCO - BOC GASES NON-TIME CRITICAL REMOVAL AR (BSNCR)

January 19, 2001

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**HEADING: 0. 0. . . TABLE OF CONTENTS/INDEX**

(BSNCR) BOOMSNUB/AIRCO - BOC GASES NON-TIME CRITICAL REMOVAL AR INDEX

**HEADING: 1. 0. . . BOC GASES NON-TIME CRITICAL REMOVAL AR (Referenced**

1. 0. . . Vol. 1 - 1121336 DOC ID: 141581  
DATE: 12/11/2000 PAGES: 4  
AUTHOR(S): ADDRESSSEE(S):  
Deborah J. Yamamoto/EPA File

DESCRIPTION: Memo incorporating the Boomsnub Interim Action Administrative Record (BIAAR) and the Boomsnub Soils and Site-Wide Groundwater OUs Administrative Record (BSGAR) into the Boomsnub/Airco - BOC Gases Non-Time Critical Removal AR (BSNCR).  
A copy of the BIAAR and BSGAR are available for review in the Vancouver Regional Library repository and the Region 10 Superfund Record Center, Seattle, WA.

**HEADING: 4. 0. . . AIRCO (BOC GASES) SITE EVALUATION AND EE/CA**

**SUB-HEAD: 4. 1. . . Vol. 1 - Correspondence**

4. 1. . . Vol. 1 - 1083393 DOC ID: 105932 IMAGED  
DATE: PAGES: 3  
AUTHOR(S): ADDRESSEE(S):  
Unknown Unknown

DESCRIPTION: Troutdale evaluation - water level trend measurements.

4. 1. . . Vol. 1 - 1037108 DOC ID: 35262 IMAGED  
DATE: 3/30/1994 PAGES: 1  
AUTHOR(S): ADDRESSEE(S):  
Pacific Groundwater Group Unknown

DESCRIPTION: Map titled Figure 6; Distribution of Chromium in the Pleistocene Alluvial Deposits Aquifer, includes handwritten notes.

4. 1. . . Vol. 1 - 1037119 DOC ID: 35273 IMAGED  
DATE: 6/13/1994 PAGES: 7  
AUTHOR(S): ADDRESSEE(S):  
Dan Alexanian/Washington State Dept. of Ecology Bernard Savala/EPA

DESCRIPTION: Fax transmittal of Final Work Plan, Revision II, for Soil Vapor Survey at Airco Gases dated 6/8/94 from G. Hayman to T. Masterson (includes handwritten notes).

4. 1. . . Vol. 1 - 1037120 DOC ID: 35274 IMAGED  
DATE: 6/14/1994 PAGES: 2  
AUTHOR(S): ADDRESSEE(S):  
Bernard Zavala/EPA Ann Williamson/EPA

DESCRIPTION: Handwritten note of comments on the Revised Work Plan.

4. 1. . . Vol. 1 - 1030150 DOC ID: 42746 IMAGED  
DATE: 8/26/1994 PAGES: 5  
AUTHOR(S): ADDRESSEE(S):  
Raymond Whitlock/Ecology & Environment, Inc. Unknown

DESCRIPTION: Notes regarding conference call with Dept. of Ecology regarding Airco.

4. 1. . . Vol. 1 - 1030151 DOC ID: 42747 IMAGED  
DATE: 8/30/1994 PAGES: 14  
AUTHOR(S): ADDRESSEE(S):  
Ecology & Environment, Inc. Unknown

DESCRIPTION: Field notes for job number ZT2101, BOC/Airco Gases with notes on meetings regarding Airco/BOC.

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4. 1. . . . Vol. 1 - 1037127 DOC ID: 35281 IMAGED  
DATE: 9/27/1994 PAGES: 4  
AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, &  
Technology ADDRESSEE(S): Richard Cyr/Clark County Dept. of Public  
Utilities  
DESCRIPTION: Letter regarding BOC production wells.

4. 1. . . . Vol. 1 - 1097717 DOC ID: 128499 IMAGED  
DATE: 1/24/1995 PAGES: 2  
AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, &  
Technology ADDRESSEE(S): Ann Williamson/EPA  
DESCRIPTION: Letter regarding groundwater monitoring details for spring 1995 in relation to BOC Gases.

4. 1. . . . Vol. 1 - 1030713 DOC ID: 70898 IMAGED  
DATE: 7/28/1995 PAGES: 1  
AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, &  
Technology ADDRESSEE(S): Tina Masterson/Washington State Dept. of  
Ecology  
DESCRIPTION: Cover letter transmitting the Final Phase IV South Dry Well Remedial Action report.

4. 1. . . . Vol. 1 - 1037895 DOC ID: 41161 IMAGED  
DATE: 8/7/1995 PAGES: 5  
AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, &  
Technology ADDRESSEE(S): Ann Williamson/EPA  
DESCRIPTION: Results of Sediment Sample Analysis, Baker Tank at BOC Gases.

4. 1. . . . Vol. 1 - 1037134 DOC ID: 35288 IMAGED  
DATE: 8/9/1995 PAGES: 2  
AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, &  
Technology ADDRESSEE(S): Ann Williamson/EPA  
DESCRIPTION: Letter clarifying cleanup standards being used for sediment cleanup.

4. 1. . . . Vol. 1 - 1037843 DOC ID: 41045 IMAGED  
DATE: 3/4/1996 PAGES: 14  
AUTHOR(S): EPA ADDRESSEE(S): Michael S. Resh/Airco Industrial Gases  
DESCRIPTION: Information sent for use in designing system to accept discharge of treated water to BOC  
cooling towers.

4. 1. . . . Vol. 1 - 1097718 DOC ID: 128500 IMAGED  
DATE: 4/29/1996 PAGES: 5  
AUTHOR(S): Diana L. Crawford/EA Engineering, Science, &  
Technology ADDRESSEE(S): Ann Williamson/EPA  
Glenn A. Hayman/EA Engineering, Science, &  
Technology

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DESCRIPTION: Letter regarding the Conceptual Design for Secondary Containment at the Boomsnub VOC Treatment System.

4. 1. . . . Vol. 1 - 1097719 DOC ID: 128501 IMAGED  
DATE: 5/22/1996 PAGES: 5  
AUTHOR(S): John P. Frerich/ICF Kaiser ADDRESSEE(S): Ann Williamson/EPA

DESCRIPTION: Letter transmitting the evaluation and recommendation of the location of BOC Gases Secondary Containment Area - Task 3.1.

4. 1. . . . Vol. 1 - 1097720 DOC ID: 128502 IMAGED  
DATE: 7/18/1996 PAGES: 3  
AUTHOR(S): Diana L. Crawford/EA Engineering, Science, & Technology  
Glenn A. Hayman/EA Engineering, Science, & Technology  
ADDRESSEE(S): Ann Williamson/EPA

DESCRIPTION: Letter regarding the conceptual design for leak detection.

4. 1. . . . Vol. 1 - 1097721 DOC ID: 128503 IMAGED  
DATE: 8/8/1996 PAGES: 4  
AUTHOR(S): Diana L. Crawford/EA Engineering, Science, & Technology  
Glenn A. Hayman/EA Engineering, Science, & Technology  
ADDRESSEE(S): Ann Williamson/EPA

DESCRIPTION: Letter transmitting the conceptual design for leak detection based on the discussion and agreement on the approach reached by EA and ICF Kaiser.

4. 1. . . . Vol. 1 - 1030195 DOC ID: 42791 IMAGED  
DATE: 8/16/1996 PAGES: 13  
AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Fax transmittal of the waste discharge permit issued by Dept. of Ecology, dated 7/28/83.

4. 1. . . . Vol. 1 - 1097722 DOC ID: 128504 IMAGED  
DATE: 8/22/1996 PAGES: 3  
AUTHOR(S): Diana L. Crawford/EA Engineering, Science, & Technology  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Fax transmitting an example of a containment sump.

4. 1. . . . Vol. 1 - 1097723 DOC ID: 128505 IMAGED  
DATE: 8/22/1996 PAGES: 2  
AUTHOR(S): Ann Williamson/EPA ADDRESSEE(S): Michael S. Resh/BOC Gases

DESCRIPTION: Letter approving the Conceptual Design for Leak Detection at the Boomsnub VOC Treatment System.

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4. 1. . . . Vol. 1 - 1097724 DOC ID: 128506 IMAGED  
DATE: 8/22/1996 PAGES: 4  
AUTHOR(S): Michael S. Resh/BOC Gases  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Letter regarding and transmitting an investigation report regarding a release from the groundwater treatment system.

4. 1. . . . Vol. 1 - 1097725 DOC ID: 128508 IMAGED  
DATE: 8/26/1996 PAGES: 2  
AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology  
ADDRESSEE(S): Ann Williamson/EPA

DESCRIPTION: Fax transmitting requested storm water runoff calculations.

4. 1. . . . Vol. 1 - 1097726 DOC ID: 128509 IMAGED  
DATE: 8/30/1996 PAGES: 3  
AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology  
ADDRESSEE(S): Ann Williamson/EPA

DESCRIPTION: Response to approval of the Conceptual Design of the Leak Detection System, BOC Gases.

4. 1. . . . Vol. 1 - 1030287 DOC ID: 68000 IMAGED  
DATE: 10/28/1996 PAGES: 23  
AUTHOR(S): Ann Williamson/EPA  
ADDRESSEE(S): Michael S. Resh/Airco Industrial Gases

DESCRIPTION: Draft Scope of Work for BOC Gases Soil Unit RI/FS.

4. 1. . . . Vol. 1 - 1030882 DOC ID: 72182 IMAGED  
DATE: 11/4/1996 PAGES: 20  
AUTHOR(S): Ann Williamson/EPA  
ADDRESSEE(S): Michael S. Resh/BOC Gases

DESCRIPTION: Draft Scope of Work for BOC Gases' Soil Unit Site Evaluation and Engineering Evaluation and Cost Analysis.

4. 1. . . . Vol. 1 - 1030883 DOC ID: 72186 IMAGED  
DATE: 11/22/1996 PAGES: 2  
AUTHOR(S): Bernard Zavala/EPA  
ADDRESSEE(S): Ann Williamson/EPA

Deborah J. Yamamoto/EPA

DESCRIPTION: Memo regarding scoping for the RI at BOC Gases.

4. 1. . . . Vol. 1 - 1030288 DOC ID: 68001 IMAGED  
DATE: 12/12/1996 PAGES: 4  
AUTHOR(S): Bernard Zavala/EPA  
ADDRESSEE(S): Ann Williamson/EPA

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DESCRIPTION: Review comments on Draft Work Plan for Subsurface Investigation of Proposed Plant No. 3 at BOC Gases.

4. 1. . . Vol. 1 - 1030884 DOC ID: 72187 IMAGED  
DATE: 12/16/1996 PAGES: 28

AUTHOR(S): Ann Williamson/EPA ADDRESSEE(S): James Merriam/BOC Gases

Deborah J. Yamamoto/EPA

Ann Williamson/EPA Michael S. Resh/BOC Gases

Deborah J. Yamamoto/EPA

DESCRIPTION: Comments on December 1996 Draft Work Plan for Subsurface Investigation of Proposed Plant No. 3.

4. 1. . . Vol. 1 - 1030885 DOC ID: 72188 IMAGED  
DATE: 12/17/1996 PAGES: 3

AUTHOR(S): Ann Williamson/EPA ADDRESSEE(S): James Merriam/BOC Gases

Deborah J. Yamamoto/EPA

Ann Williamson/EPA Michael S. Resh/BOC Gases

Deborah J. Yamamoto/EPA

DESCRIPTION: Letter regarding Scoping of Site Evaluation and Engineering Evaluation/Cost Analysis and Data Gap Issues.

4. 1. . . Vol. 1 - 1030881 DOC ID: 72326 IMAGED  
DATE: 1/6/1997 PAGES: 2

AUTHOR(S): Ginna Grepo-Grove/EPA ADDRESSEE(S): Ann Williamson/EPA

Deborah J. Yamamoto/EPA

DESCRIPTION: Review of the TEG, NW Laboratories' Standard Operating Procedures (SOP) for the On-Site Analysis of Halogenated Volatile Organic Compounds(VOC) for the Subsurface Investigation of Proposed Plant 3.

4. 1. . . Vol. 1 - 1030895 DOC ID: 72338 IMAGED  
DATE: 1/6/1997 PAGES: 2

AUTHOR(S): Ginna Grepo-Grove/EPA ADDRESSEE(S): Ann Williamson/EPA

Deborah J. Yamamoto/EPA

DESCRIPTION: Review of the Draft final Quality Assurance/Quality Control Project Plan (QAPP) for the Subsurface Investigation of Proposed Plant No. 3.

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4. 1. . . . Vol. 1 - 1111287 DOC ID: 137312 IMAGED  
DATE: 1/10/1997 PAGES: 1

AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology  
ADDRESSEE(S): Ann Williamson/EPA

DESCRIPTION: Letter transmitting the Draft Site Evaluation Work Plan, BOC Gases (without attachment).

4. 1. . . . Vol. 1 - 1030337 DOC ID: 68217 IMAGED  
DATE: 1/15/1997 PAGES: 2

AUTHOR(S): Dan Alexanian/Washington State Dept. of Ecology  
ADDRESSEE(S): Ann Williamson/EPA

DESCRIPTION: Comments on EA's Draft Final QA/QCP and FSP Reports prepared for BOC Gases.

4. 1. . . . Vol. 1 - 1030289 DOC ID: 68002 IMAGED  
DATE: 1/16/1997 PAGES: 10

AUTHOR(S): Deborah J. Yamamoto/EPA  
ADDRESSEE(S): Glenn A. Hayman/EA Engineering, Science, & Technology

DESCRIPTION: Review comments on Draft Site Health and Safety Plan for BOC Gases Phase I Evaluation.

4. 1. . . . Vol. 1 - 1030333 DOC ID: 68202 IMAGED  
DATE: 1/17/1997 PAGES: 1

AUTHOR(S): Dave Metallo/EA Engineering, Science, & Technology  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Transmittal of comments to Site Safety and Health Plan for BOC Gases.

4. 1. . . . Vol. 1 - 1030667 DOC ID: 70666 IMAGED  
DATE: 1/17/1997 PAGES: 1

AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Cover letter for the Phase I Site Evaluation FSP, QAPjP, and Safety and Health Plan for BOC Gases.

4. 1. . . . Vol. 1 - 1030335 DOC ID: 68205 IMAGED  
DATE: 1/24/1997 PAGES: 3

AUTHOR(S): Dan Alexanian/Washington State Dept. of Ecology  
ADDRESSEE(S): Ann Williamson/EPA

DESCRIPTION: Comments on EA's Draft Site Evaluation Workplan, Final QA/QCPP, Site Safety and Health Plan, and Final Field Sampling for BOC Gases.

4. 1. . . . Vol. 1 - 1030290 DOC ID: 68004 IMAGED  
DATE: 1/29/1997 PAGES: 1

AUTHOR(S): Deborah J. Yamamoto/EPA  
ADDRESSEE(S): Chris V. Pitre/Pacific Groundwater Group

DESCRIPTION: Transmittal letter for Administrative Order on Consent and attached Scope of Work for the EE/CA (less attachments).

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4. 1. . . . Vol. 1 - 1030286 DOC ID: 68005 IMAGED  
DATE: 1/29/1997 PAGES: 3

AUTHOR(S): Deborah J. Yamamoto/EPA  
ADDRESSEE(S): Michael S. Resh/Airco Industrial Gases

DESCRIPTION: Comments on the Field Sampling Plan, Quality Assurance Project Plan and Health and Safety Plan submitted 1/17/97.

4. 1. . . . Vol. 1 - 1030373 DOC ID: 68767 IMAGED  
DATE: 2/3/1997 PAGES: 1

AUTHOR(S): Carla Sower/Southwest Washington Health District  
ADDRESSEE(S): Kate Green/Southwest Washington Health District

DESCRIPTION: Memorandum regarding sewer capacity at BOC Gases.

4. 1. . . . Vol. 1 - 1030343 DOC ID: 68377 IMAGED  
DATE: 2/11/1997 PAGES: 13

AUTHOR(S): Deborah J. Yamamoto/EPA  
ADDRESSEE(S): Michael S. Resh/Airco Industrial Gases

DESCRIPTION: Comments on the Draft Site Evaluation Work Plan for BOC Gases Property.

4. 1. . . . Vol. 1 - 1030344 DOC ID: 68378 IMAGED  
DATE: 2/12/1997 PAGES: 1

AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Transmittal letter for Draft Proposed Plan No. 3 Decision Document requesting comments and changes (less attachment).

4. 1. . . . Vol. 1 - 1030374 DOC ID: 68770 IMAGED  
DATE: 2/20/1997 PAGES: 2

AUTHOR(S): Dan Alexanian/Washington State Dept. of Ecology  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Memorandum commenting on Draft Plant 3 Decision Document, BOC Gases.

4. 1. . . . Vol. 1 - 1030372 DOC ID: 68762 IMAGED  
DATE: 2/27/1997 PAGES: 6

AUTHOR(S): Deborah J. Yamamoto/EPA  
ADDRESSEE(S): Michael S. Resh/BOC Gases

DESCRIPTION: Comments on the Draft Plant No. 3 Decision Document, BOC Gases.

4. 1. . . . Vol. 1 - 1030668 DOC ID: 70667 IMAGED  
DATE: 3/3/1997 PAGES: 1

AUTHOR(S): Michael S. Resh/BOC Gases  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Letter regarding Administrative Order on Consent requesting a revision to the submission date.

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4. 1. . . . Vol. 1 - 1030666 DOC ID: 70665 IMAGED  
DATE: 3/7/1997 PAGES: 1  
AUTHOR(S): Deborah J. Yamamoto/EPA ADDRESSEE(S): John P. Frerich/ICF Technology, Inc.

DESCRIPTION: Transmittal of the Proposed Plant #3 Decision Document, the AOC with BOC Gases, the 10/95 Data Summary Report and the Field Sampling Plan for Phase I (less attachments).

4. 1. . . . Vol. 1 - 1030669 DOC ID: 70670 IMAGED  
DATE: 3/10/1997 PAGES: 1  
AUTHOR(S): Deborah J. Yamamoto/EPA ADDRESSEE(S): Michael S. Resh/BOC Gases

DESCRIPTION: Transmittal cover letter for data validation reports for Phase I of the Site Evaluation (less attachment).

4. 1. . . . Vol. 1 - 1111288 DOC ID: 137313 IMAGED  
DATE: 3/14/1997 PAGES: 3  
AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Fax transmitting an outline for Phase II of the Site Evaluation at BOC for review and comment, annotated.

4. 1. . . . Vol. 1 - 1030439 DOC ID: 69668 IMAGED  
DATE: 3/26/1997 PAGES: 2  
AUTHOR(S): Kate Green/Southwest Washington Health District ADDRESSEE(S): G. JaiShankar/BOC Gases

DESCRIPTION: Letter and attached memo from Southwest Washington Health District regarding BOC Gases facility expansion.

4. 1. . . . Vol. 1 - 1030791 DOC ID: 71267 IMAGED  
DATE: 4/7/1997 PAGES: 1  
AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Transmittal of Final Site Evaluation Work Plan (less attachments).

4. 1. . . . Vol. 1 - 1030735 DOC ID: 71035 IMAGED  
DATE: 5/5/1997 PAGES: 3  
AUTHOR(S): Deborah J. Yamamoto/EPA ADDRESSEE(S): Michael S. Resh/BOC Gases

DESCRIPTION: Comments on the Final Site Evaluation Work Plan, dated 4/7/97.

4. 1. . . . Vol. 1 - 1111289 DOC ID: 137314 IMAGED  
DATE: 5/7/1997 PAGES: 3  
AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology ADDRESSEE(S): Deborah J. Yamamoto/EPA

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DESCRIPTION: Fax transmitting a schedule for field work compressed from the work plan and FSP.

4. 1. . . . Vol. 1 - 1030792 DOC ID: 71268 IMAGED  
DATE: 5/9/1997 PAGES: 1  
AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, &  
Technology ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Transmittal of Site Safety and Health Plan, Revision I (less attachment).

4. 1. . . . Vol. 1 - 1111290 DOC ID: 137315 IMAGED  
DATE: 5/15/1997 PAGES: 1  
AUTHOR(S): Deborah J. Yamamoto/EPA ADDRESSEE(S): Michael S. Resh/BOC Gases

DESCRIPTION: Letter transmitting EPA comments on the Final Field Sampling Plan Draft Addendum for Phase II of the Site Evaluation (without attachment).

4. 1. . . . Vol. 1 - 1030745 DOC ID: 71053 IMAGED  
DATE: 5/22/1997 PAGES: 2  
AUTHOR(S): Dan Alexanian/Washington State Dept. of Ecology ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Comments regarding EA's Draft Phase I Site Evaluation Report.

4. 1. . . . Vol. 1 - 1097727 DOC ID: 128510 IMAGED  
DATE: 5/23/1997 PAGES: 3  
AUTHOR(S): Dan Alexanian/Washington State Dept. of Ecology ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Fax cover sheet transmitting comments on EA's Draft Phase I Site Evaluation Report, BOC Gases.

4. 1. . . . Vol. 1 - 1030746 DOC ID: 71054 IMAGED  
DATE: 5/27/1997 PAGES: 7  
AUTHOR(S): Bernard Zavala/EPA ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Memorandum transmitting review comments on Phase I Site Evaluation Report.

4. 1. . . . Vol. 1 - 1030747 DOC ID: 71055 IMAGED  
DATE: 5/29/1997 PAGES: 6  
AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, &  
Technology ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Memorandum regarding revised verbiage for the review comments on Phase I Site Evaluation Report.

4. 1. . . . Vol. 1 - 1030807 DOC ID: 71361 IMAGED  
DATE: 6/16/1997 PAGES: 6  
AUTHOR(S): Michael S. Resh/BOC Gases ADDRESSEE(S): Nic Anderson/First Church of God

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DESCRIPTION: Request for Access and Scope of Work for Well Installation and Sampling.

4. 1. . . . Vol. 1 - 1030808 DOC ID: 71362 IMAGED  
DATE: 6/16/1997 PAGES: 4  
AUTHOR(S): Michael S. Resh/BOC Gases  
ADDRESSEE(S): John Grems/Permalume

DESCRIPTION: Letter requesting permission to collect samples.

4. 1. . . . Vol. 1 - 1030809 DOC ID: 71363 IMAGED  
DATE: 6/16/1997 PAGES: 6  
AUTHOR(S): Michael S. Resh/BOC Gases  
ADDRESSEE(S): Lowell Weiss/Clark County Dept. of Public Utilities

DESCRIPTION: Letter requesting permission to collect samples on Clark County Public Works property.

4. 1. . . . Vol. 1 - 1030810 DOC ID: 71364 IMAGED  
DATE: 6/20/1997 PAGES: 1  
AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology  
ADDRESSEE(S): Nic Anderson/First Church of God

DESCRIPTION: Letter regarding Monitoring Well Installation.

4. 1. . . . Vol. 1 - 1030811 DOC ID: 71365 IMAGED  
DATE: 6/23/1997 PAGES: 3  
AUTHOR(S): Deborah J. Yamamoto/EPA  
ADDRESSEE(S): Michael S. Resh/BOC Gases

DESCRIPTION: Letter regarding Administrative Order on Consent, Final Addendum with attached EPA comments on Final Addendum.

4. 1. . . . Vol. 1 - 1111291 DOC ID: 137316 IMAGED  
DATE: 7/1/1997 PAGES: 1  
AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology  
ADDRESSEE(S): Sharon Chung/Clark County Community Development

DESCRIPTION: Letter transmitting tables and figures showing volatile organic compounds in soil and groundwater samples collected from the BOC Gases property during the EE/CA Phase I investigation of 1/97 (without attachment).

4. 1. . . . Vol. 1 - 1080328 DOC ID: 93690 IMAGED  
DATE: 7/2/1997 PAGES: 2  
AUTHOR(S): Deborah J. Yamamoto/EPA  
ADDRESSEE(S): Michael S. Resh/BOC Gases

DESCRIPTION: Letter regarding proposed Plant #3 construction changes.

4. 1. . . . Vol. 1 - 1083366 DOC ID: 105738 IMAGED  
DATE: 7/2/1997 PAGES: 3  
AUTHOR(S): Jason Jordan/J. D. White Co., Inc.  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

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DESCRIPTION: Fax transmittal of site plan for the BOC Gases 78th street facility indicating proposed tank location.

4. 1. . . Vol. 1 - 1111285 DOC ID: 137304 IMAGED  
DATE: 7/2/1997 PAGES: 3  
AUTHOR(S): Lisa Ann Rotella-Skowronski/BOC Gases  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Letter transmitting maps of the Proposed Plant #3 Construction Changes.

4. 1. . . Vol. 1 - 1030813 DOC ID: 71441 IMAGED  
DATE: 7/3/1997 PAGES: 1  
AUTHOR(S): Jason Jordan/J. D. White Co., Inc.  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Letter of thanks for the quick response to their questions and concerns.

4. 1. . . Vol. 1 - 1090197 DOC ID: 130959 IMAGED  
DATE: 7/7/1997 PAGES: 1  
AUTHOR(S): Deborah J. Yamamoto/EPA  
ADDRESSEE(S): Michael S. Resh/BOC Gases

DESCRIPTION: Letter regarding Administrative Order on Consent, Site Safety and Health Plan, Revision 1; Addendum to Site Safety and health Plan, stating that BOC has responded to all previous comments and that the EPA has no further comments on these documents.

4. 1. . . Vol. 1 - 1090198 DOC ID: 130960 IMAGED  
DATE: 7/10/1997 PAGES: 5  
AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology  
ADDRESSEE(S):  
Jon Hanson/Tacoma Pump and Drilling Co., Inc.  
Vince Herschell/Environmental Products NW  
Terry Jacques/Geo-Tech Explorations, Inc.  
Michael A. Korosec/Transglobal Environmental Geosciences Northwest  
Bolton Minister/Minister & Glaeser Surveying, Inc.

DESCRIPTION: Letters transmitting the Administrative Order on Consent, Docket #10-97-0065 CERCLA (without attachment) to each of the listed addressees.

4. 1. . . Vol. 1 - 1090199 DOC ID: 130962 IMAGED  
DATE: 7/15/1997 PAGES: 1  
AUTHOR(S): Michael S. Resh/BOC Gases  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: E-mail expressing thanks for the quick response to the issues regarding the Plant #3 construction.

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4. 1. . . . Vol. 1 - 1111292 DOC ID: 137317 IMAGED  
DATE: 7/30/1997 PAGES: 3  
AUTHOR(S): Diana L. Crawford/EA Engineering, Science, &  
Technology ADDRESSEE(S): Scott Inloes/Southwest Air Pollution  
Control Authority  
DESCRIPTION: Letter regarding Pump Test and SVE Pilot Test.

4. 1. . . . Vol. 1 - 1080292 DOC ID: 92615 IMAGED  
DATE: 9/2/1997 PAGES: 5  
AUTHOR(S): Dan Alexanian/Washington State Dept. of Ecology ADDRESSEE(S):  
Bernard Zavala/EPA  
DESCRIPTION: Transmittal of correspondence between D. Alexanian and R. Rau regarding the discharge  
of treated pump test water.

4. 1. . . . Vol. 1 - 1090200 DOC ID: 130963 IMAGED  
DATE: 10/9/1997 PAGES: 4  
AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, &  
Technology ADDRESSEE(S): Deborah J. Yamamoto/EPA  
DESCRIPTION: Letter transmitting the preliminary outline for the Phase II Site Evaluation Report,  
requesting a review and comments.

4. 1. . . . Vol. 1 - 1111346 DOC ID: 137461 IMAGED  
DATE: 11/25/1997 PAGES: 39  
AUTHOR(S): BOC Gases ADDRESSEE(S):  
Unknown

EA Engineering, Science, & Technology

DESCRIPTION: Phase II Site Evaluation Data Presentation - BOC Gases Vancouver, Washington, includes  
sign-in sheet and agenda.

4. 1. . . . Vol. 1 - 1080327 DOC ID: 93689 IMAGED  
DATE: 12/4/1997 PAGES: 1  
AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, &  
Technology ADDRESSEE(S): Deborah J. Yamamoto/EPA  
DESCRIPTION: Price comparison sheet: cable tool vs. air rotary.

4. 1. . . . Vol. 1 - 1080375 DOC ID: 93827 IMAGED  
DATE: 12/15/1997 PAGES: 2  
AUTHOR(S): Michael S. Resh/BOC Gases ADDRESSEE(S):  
Deborah J. Yamamoto/EPA  
DESCRIPTION: Letter regarding additional work that was agreed upon at preliminary data presentation  
meeting.

4. 1. . . . Vol. 1 - 1080329 DOC ID: 93692 IMAGED  
DATE: 12/23/1997 PAGES: 4  
AUTHOR(S): ADDRESSEE(S):

(BSNCR) BOOMSNUB/AIRCO - BOC GASES NON-TIME CRITICAL REMOVAL AR INDEX

Anne Dailey/EPA

Deborah J. Yamamoto/EPA

Glenn A. Hayman/EA Engineering, Science, &  
Technology

Anne Dailey/EPA

Bernard Zavala/EPA

Glenn A. Hayman/EA Engineering, Science, &  
Technology

DESCRIPTION: Series of e-mails regarding status of Boomsnub treatment system.

4. 1. . . . Vol. 1 - 1080374 DOC ID: 93826 IMAGED  
DATE: 12/23/1997 PAGES: 2

AUTHOR(S):

Michael S. Resh/BOC Gases

ADDRESSEE(S):

Deborah J. Yamamoto/EPA

DESCRIPTION: Letter regarding issues discussed at preliminary data meeting: Engineering Evaluation/Cost Analysis (EE/CA) and reimbursement of costs.

4. 1. . . . Vol. 1 - 1090202 DOC ID: 130965 IMAGED  
DATE: 1/8/1998 PAGES: 1

AUTHOR(S):

EA Engineering, Science, & Technology

ADDRESSEE(S):

Unknown

DESCRIPTION: Detailed Schedule of Field Work, BOC Gases for the period of 1/12/98 through 1/19/98.

4. 1. . . . Vol. 1 - 1090203 DOC ID: 130966 IMAGED  
DATE: 3/16/1998 PAGES: 2

AUTHOR(S):

Glenn A. Hayman/EA Engineering, Science, &  
Technology

ADDRESSEE(S):

Michael S. Resh/BOC Gases

Deborah J. Yamamoto/EPA

DESCRIPTION: Fax cover sheet transmitting a tentative schedule for the EE/CA.

4. 1. . . . Vol. 1 - 1083394 DOC ID: 105933 IMAGED  
DATE: 4/8/1998 PAGES: 1

AUTHOR(S):

Glenn A. Hayman/EA Engineering, Science, &  
Technology

ADDRESSEE(S):

David F. Brennan/EA Laboratories

DESCRIPTION: Email transmitting schedule for BOC Gases ground-water sampling.

4. 1. . . . Vol. 1 - 1097731 DOC ID: 128514 IMAGED  
DATE: 4/22/1998 PAGES: 2

AUTHOR(S):

Dan Alexanian/Washington State Dept. of Ecology

ADDRESSEE(S):

Deborah J. Yamamoto/EPA

DESCRIPTION: Letter providing comments on the Draft Engineering Evaluation/Cost Analysis at Airco/BOC Gases, with annotations.

4. 1. . . . Vol. 1 - 1090204 DOC ID: 130967 IMAGED  
DATE: 4/22/1998 PAGES: 1

AUTHOR(S):

ADDRESSEE(S):

(BSNCR) BOOMSNUB/AIRCO - BOC GASES NON-TIME CRITICAL REMOVAL AR INDEX

Glenn A. Hayman/EA Engineering, Science, &  
Technology

Deborah J. Yamamoto/EPA

DESCRIPTION: E-mail noting that the review of the risk evaluation will occur the afternoon of 4/22/98.

4. 1. . . . Vol. 1 - 1083395 DOC ID: 105934 IMAGED  
DATE: 5/21/1998 PAGES: 1

AUTHOR(S):  
Glenn A. Hayman/EA Engineering, Science, &  
Technology

ADDRESSEE(S):  
Deborah J. Yamamoto/EPA

DESCRIPTION: Email regarding EE/CA comment number 45.

4. 1. . . . Vol. 1 - 1083396 DOC ID: 105935 IMAGED  
DATE: 5/21/1998 PAGES: 1

AUTHOR(S):  
Glenn A. Hayman/EA Engineering, Science, &  
Technology

ADDRESSEE(S):  
Deborah J. Yamamoto/EPA

DESCRIPTION: Email regarding comments on the Draft EE/CA.

4. 1. . . . Vol. 1 - 1061006 DOC ID: 97055 IMAGED  
DATE: 7/1/1998 PAGES: 7

AUTHOR(S):  
Deborah J. Yamamoto/EPA

ADDRESSEE(S):  
Michael S. Resh/BOC Gases

DESCRIPTION: Letter regarding a request for an additional extraction well at the Boomsnub Site.

4. 1. . . . Vol. 1 - 1083397 DOC ID: 105936 IMAGED  
DATE: 7/16/1998 PAGES: 1

AUTHOR(S):  
Deborah J. Yamamoto/EPA

ADDRESSEE(S):  
Glenn A. Hayman/EA Engineering, Science, &  
Technology

DESCRIPTION: Email and response regarding storage of cuttings from BOC drilling.

4. 1. . . . Vol. 1 - 1083398 DOC ID: 105937 IMAGED  
DATE: 7/17/1998 PAGES: 1

AUTHOR(S):  
Glenn A. Hayman/EA Engineering, Science, &  
Technology

ADDRESSEE(S):  
Deborah J. Yamamoto/EPA

DESCRIPTION: Email regarding storage of cuttings from BOC drilling.

4. 1. . . . Vol. 1 - 1083399 DOC ID: 105938 IMAGED  
DATE: 7/21/1998 PAGES: 1

AUTHOR(S):  
Glenn A. Hayman/EA Engineering, Science, &  
Technology

ADDRESSEE(S):  
Deborah J. Yamamoto/EPA

DESCRIPTION: Email forwarding e-mail from Larry Hoose regarding storage of cuttings.

4. 1. . . . Vol. 1 - 1083400 DOC ID: 105939 IMAGED  
DATE: 8/28/1998 PAGES: 1

AUTHOR(S):  
Colin Wagoner/ICF Kaiser Engineers Group, Inc.

ADDRESSEE(S):  
Peter Contreras/EPA

(BSNCR) BOOMSNUB/AIRCO - BOC GASES NON-TIME CRITICAL REMOVAL AR INDEX

DESCRIPTION: Email commenting on BOC's risk assessment.

4. 1. . . . Vol. 1 - 1111294 DOC ID: 137319 IMAGED  
DATE: 11/3/1998 PAGES: 6  
AUTHOR(S): Michael S. Resh/BOC Gases  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Fax transmitting the Hazardous Materials Inventory for the Vancouver Electronic Gases facility, updated 9/98.

4. 1. . . . Vol. 1 - 1090205 DOC ID: 130968 IMAGED  
DATE: 11/5/1998 PAGES: 46  
AUTHOR(S): BOC Gases  
ADDRESSEE(S): Clark County Citizen's Hazardous Waste Task Force

DESCRIPTION: Background Information Provided by BOC Gases.

4. 1. . . . Vol. 1 - 1083329 DOC ID: 105657 IMAGED  
DATE: 12/7/1998 PAGES: 1  
AUTHOR(S): Deborah J. Yamamoto/EPA  
ADDRESSEE(S): Glenn A. Hayman/EA Engineering, Science, & Technology

DESCRIPTION: Transmittal of EA Engineering lab reports: 981116, 981332, 980959, 981189, 950630, and 980550 (less attachments).

4. 1. . . . Vol. 1 - 1083402 DOC ID: 105941 IMAGED  
DATE: 12/14/1998 PAGES: 1  
AUTHOR(S): Deborah J. Yamamoto/EPA  
ADDRESSEE(S): Glenn A. Hayman/EA Engineering, Science, & Technology

DESCRIPTION: Transmittal letter for EA Lab Report #980465, April 1998 (less attachment).

4. 1. . . . Vol. 1 - 1111278 DOC ID: 137298 IMAGED  
DATE: 1/26/1999 PAGES: 1  
AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Letter transmitting the Final Plant 3 Decision Document (without attachment).

4. 1. . . . Vol. 1 - 1090386 DOC ID: 128515 IMAGED  
DATE: 2/1/1999 PAGES: 5  
AUTHOR(S): Steven D. Acree/EPA  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

Randall R. Ross/EPA

DESCRIPTION: Memorandum providing comments on the Draft Final Engineering Evaluation/Cost Analysis for BOC Gases Soil Operable Unit.

4. 1. . . . Vol. 1 - 1069215 DOC ID: 110802 IMAGED  
DATE: 2/23/1999 PAGES: 3  
AUTHOR(S):  
ADDRESSEE(S):

(BSNCR) BOOMSNUB/AIRCO - BOC GASES NON-TIME CRITICAL REMOVAL AR INDEX

Deborah J. Yamamoto/EPA

Michael S. Resh/BOC Gases

DESCRIPTION: Letter responding to 2/10/1999 letter requesting additional details on the number of wells EPA is requesting BOC Gases to install.

4. 1. . . Vol. 1 - 1097733 DOC ID: 128516 IMAGED  
DATE: 3/29/1999 PAGES: 3

AUTHOR(S): Deborah J. Yamamoto/EPA  
ADDRESSEE(S): Glenn A. Hayman/EA Engineering, Science, & Technology

DESCRIPTION: Letter providing comments on the Draft Final Streamlined Risk Evaluation, BOC Gases Soil Operable Unit.

4. 1. . . Vol. 1 - 1097734 DOC ID: 128517 IMAGED  
DATE: 5/5/1999 PAGES: 9

AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Letter requesting approval to dispose of drill cuttings generated during well drilling.

4. 1. . . Vol. 1 - 1097735 DOC ID: 128518 IMAGED  
DATE: 5/10/1999 PAGES: 1

AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology  
ADDRESSEE(S): Unknown

DESCRIPTION: Letter regarding drums used for storage of drill cuttings at the BOC Gases plant.

4. 1. . . Vol. 1 - 1111293 DOC ID: 137318 IMAGED  
DATE: 6/1/1999 PAGES: 4

AUTHOR(S): Michael S. Resh/BOC Gases  
ADDRESSEE(S): Glenn A. Hayman/EA Engineering, Science, & Technology

DESCRIPTION: Fax forwarding a copy of a letter from the State of Washington Dept. of Revenue which is to be used as a sales tax exemption certificate for environmental charges at the site.

4. 1. . . Vol. 1 - 1097736 DOC ID: 128519 IMAGED  
DATE: 6/23/1999 PAGES: 1

AUTHOR(S): Deborah J. Yamamoto/EPA  
ADDRESSEE(S): Glenn A. Hayman/EA Engineering, Science, & Technology

DESCRIPTION: Letter regarding disposal of drill cuttings from the installation of monitoring wells AMW-42, AMW-43, AMW-44, and AMW-45.

4. 1. . . Vol. 1 - 1097737 DOC ID: 128520 IMAGED  
DATE: 7/2/1999 PAGES: 1

AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Letter transmitting two copies of the Draft Design Analysis Report for review and comment (without attachment).

(BSNCR) BOOMSNUB/AIRCO - BOC GASES NON-TIME CRITICAL REMOVAL AR INDEX

4. 1. . . . Vol. 1 - 1097738 DOC ID: 128521 IMAGED  
DATE: 8/6/1999 PAGES: 2  
AUTHOR(S): Dan Alexanian/Washington State Dept. of Ecology  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Letter providing comments on the Draft Final Phase II Site Evaluation Report - BOC Gases Boomsnub/Airco Superfund Site.

4. 1. . . . Vol. 1 - 1097739 DOC ID: 128528 IMAGED  
DATE: 9/10/1999 PAGES: 1  
AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: E-mail explaining NAPL and DNAPL.

4. 1. . . . Vol. 1 - 1097740 DOC ID: 128529 IMAGED  
DATE: 9/16/1999 PAGES: 2  
AUTHOR(S): Deborah J. Yamamoto/EPA  
ADDRESSEE(S): EA Engineering, Science, & Technology

DESCRIPTION: E-mail regarding follow up work near AMW-43.

4. 1. . . . Vol. 1 - 1097741 DOC ID: 128531 IMAGED  
DATE: 9/30/1999 PAGES: 3  
AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: E-mails transmitting Keith Jones' information regarding the final disposition of carbon from BOC Gases.

4. 1. . . . Vol. 1 - 1111918 DOC ID: 139344 IMAGED  
DATE: 3/16/2000 PAGES: 3  
AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Letter requesting approval of a change in the Ground-Water Treatment Well Design proposed in the EE/CA, BOC Gases Operable Unit.

4. 1. . . . Vol. 1 - 1111279 DOC ID: 137299 IMAGED  
DATE: 5/26/2000 PAGES: 1  
AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Letter transmitting the Final Phase I Site Evaluation Report (not attached).

4. 1. . . . Vol. 1 - 1111280 DOC ID: 137300 IMAGED  
DATE: 5/27/2000 PAGES: 1  
AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Letter transmitting the Final Phase II Site Evaluation Report (not attached).

(BSNCR) BOOMSNUB/AIRCO - BOC GASES NON-TIME CRITICAL REMOVAL AR INDEX

4. 1. . . . Vol. 1 - 1121246 DOC ID: 141045 IMAGED  
DATE: 6/8/2000 PAGES: 1  
AUTHOR(S): Bernard Zavala/EPA ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: E-mail providing comments on changes to the treatment well for BOC Gases.

4. 1. . . . Vol. 1 - 1121247 DOC ID: 141046 IMAGED  
DATE: 8/7/2000 PAGES: 1  
AUTHOR(S): Deborah J. Yamamoto/EPA ADDRESSEE(S): Glenn A. Hayman/EA Engineering, Science, & Technology

DESCRIPTION: Letter providing approval of a change in the ground-water treatment well design proposed in the Engineering Evaluation/Cost Analysis, BOC Gases Operable Unit.

4. 1. . . . Vol. 1 - 1121248 DOC ID: 141047 IMAGED  
DATE: 10/30/2000 PAGES: 1  
AUTHOR(S): Deborah J. Yamamoto/EPA ADDRESSEE(S): Michael S. Resh/BOC Gases

DESCRIPTION: Letter providing approval of the Final Phase I and Phase II Site Evaluation Reports and the Final Engineering Evaluation/Cost Analysis, BOC Gases Operable Unit.

**SUB-HEAD: 4. 2. . . . Vol. 1 - Reports - Pre-EE/CA**

4. 2. . . . Vol. 1 - 1121253 DOC ID: 141054 IMAGED  
DATE: 9/24/1993 PAGES: 85  
AUTHOR(S): EA Engineering, Science, & Technology ADDRESSEE(S): Airco Industrial Gases

DESCRIPTION: Draft-Final Preliminary Screening of Remedial Alternatives, Airco Gases.

4. 2. . . . Vol. 1 - 1037089 DOC ID: 35243 IMAGED  
DATE: 8/1/1994 PAGES: 94  
AUTHOR(S): EA Engineering, Science, & Technology ADDRESSEE(S): BOC Gases

DESCRIPTION: Preliminary Report Soil Vapor Survey.

**SUB-HEAD: 4. 3. . . . Vol. 1 - Site Evaluation/EE/CA**

**SUB-HEAD: 4. 3. 1. . . . Vol. 1 - Work Plans and Comments**

4. 3. 1. . . . Vol. 1 - 1111255 DOC ID: 137274 IMAGED  
DATE: PAGES: 2  
AUTHOR(S): Deborah J. Yamamoto/EPA ADDRESSEE(S): Unknown

(BSNCR) BOOMSNUB/AIRCO - BOC GASES NON-TIME CRITICAL REMOVAL AR INDEX

DESCRIPTION: EPA Comments on Draft Site Evaluation Work Plan of Concern to BOC Gases, annotated.

4. 3. 1. . Vol. 1 - 1090206 DOC ID: 130969 IMAGED  
DATE: 1/10/1997 PAGES: 1

AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology  
ADDRESSEE(S): Ann Williamson/EPA

DESCRIPTION: Letter transmitting the Draft Site Evaluation Work Plan for review and comment (without attachment).

4. 3. 1. . Vol. 1 - 1111256 DOC ID: 137275 IMAGED  
DATE: 2/25/1997 PAGES: 2

AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Transmittal regarding several EPA comments on the Draft Work Plan that BOC and EA would like to discuss.

4. 3. 1. . Vol. 1 - 1111257 DOC ID: 137276 IMAGED  
DATE: 3/14/1997 PAGES: 4

AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Fax transmitting revised wording for comments for which a response in writing was promised.

4. 3. 1. . Vol. 1 - 1030741 DOC ID: 71041 IMAGED  
DATE: 4/1/1997 PAGES: 67

AUTHOR(S): EA Engineering, Science, & Technology  
ADDRESSEE(S): BOC Gases

DESCRIPTION: Final Site Evaluation Work Plan for BOC Gases.

4. 3. 1. . Vol. 1 - 1111258 DOC ID: 137277 IMAGED  
DATE: 4/10/1997 PAGES: 1

AUTHOR(S): Dan Alexanian/Washington State Dept. of Ecology  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: E-mail providing comments on the Final Site Evaluation Work Plan.

4. 3. 1. . Vol. 1 - 1111259 DOC ID: 137278 IMAGED  
DATE: 5/5/1997 PAGES: 3

AUTHOR(S): Deborah J. Yamamoto/EPA  
ADDRESSEE(S): Michael S. Resh/BOC Gases

DESCRIPTION: Letter transmitting EPA comments that must be addressed on the Final Site Evaluation Work Plan.

4. 3. 1. . Vol. 1 - 1090207 DOC ID: 130970 IMAGED  
DATE: 7/3/1997 PAGES: 5

AUTHOR(S):  
ADDRESSEE(S):

(BSNCR) BOOMSNUB/AIRCO - BOC GASES NON-TIME CRITICAL REMOVAL AR INDEX

Glenn A. Hayman/EA Engineering, Science, &  
Technology

Deborah J. Yamamoto/EPA

DESCRIPTION: Letter transmitting an Errata sheet to make corrections to the Phase II FSP in response to EPA's comments dated 6/23/97.

4. 3. 1. . Vol. 1 - 1090208 DOC ID: 130971 IMAGED  
DATE: 10/23/1997 PAGES: 10

AUTHOR(S):  
Glenn A. Hayman/EA Engineering, Science, &  
Technology

ADDRESSEE(S):  
Deborah J. Yamamoto/EPA

DESCRIPTION: Letter transmitting revised pages for the Final Site Evaluation Work Plan.

**SUB-HEAD: 4. 3. 2. . Vol. 1 - Sampling & Analysis/Quality Assurance Plans & Comments**

4. 3. 2. . Vol. 1 - 1090209 DOC ID: 130972 IMAGED  
DATE: PAGES: 6

AUTHOR(S):  
EPA

ADDRESSEE(S):  
Unknown

DESCRIPTION: EPA/Ecology Comments on the Final Field Sampling Plan - Phase II Sampling and Analysis Plan - BOC Gases, Vancouver, Washington.

4. 3. 2. . Vol. 1 - 1097742 DOC ID: 128536 IMAGED  
DATE: 1/1/1995 PAGES: 22

AUTHOR(S):  
Transglobal Environmental Geosciences Northwest

ADDRESSEE(S):  
Unknown

DESCRIPTION: Quality Assurance/Quality Control Manual with transmittal sheet, from EA to A. Williamson.

4. 3. 2. . Vol. 1 - 1111919 DOC ID: 139347 IMAGED  
DATE: 2/27/1996 PAGES: 123

AUTHOR(S):  
Jeff Christian/Columbia Analytical Services, Inc.

ADDRESSEE(S):  
Unknown

Lee Wolf/Columbia Analytical Services, Inc.

DESCRIPTION: Columbia Analytical Services Quality Assurance Manual.

4. 3. 2. . Vol. 1 - 1030340 DOC ID: 68238 IMAGED  
DATE: 7/1/1996 PAGES: 208

AUTHOR(S):  
EA Laboratories

ADDRESSEE(S):  
Unknown

DESCRIPTION: Quality Assurance Management Plan.

4. 3. 2. . Vol. 1 - 1030338 DOC ID: 68219 IMAGED  
DATE: 9/6/1996 PAGES: 19

AUTHOR(S):  
W. E. Miller/EA Engineering, Science, & Technology

ADDRESSEE(S):  
Unknown

(BSNCR) BOOMSNUB/AIRCO - BOC GASES NON-TIME CRITICAL REMOVAL AR INDEX

DESCRIPTION: Volatile Organic Compounds by GC/MS: Capillary Column Technique.

4. 3. 2. . Vol. 1 - 1030339 DOC ID: 68226 IMAGED  
DATE: 10/10/1996 PAGES: 8  
AUTHOR(S): D. C. Miser/EA Engineering, Science, & Technology  
ADDRESSEE(S): Unknown

DESCRIPTION: Sample Preparation of Purge and Trap Volatiles.

4. 3. 2. . Vol. 1 - 1030293 DOC ID: 68007 IMAGED  
DATE: 1/17/1997 PAGES: 131  
AUTHOR(S): EA Engineering, Science, & Technology  
ADDRESSEE(S): BOC Gases

DESCRIPTION: Final Quality Assurance/Quality Control Project Plan for Subsurface Investigation of Proposed Plant No. 3 at BOC Gases, Vancouver, WA.

**SUB-HEAD: 4. 3. 2. . Vol. 2 - Sampling & Analysis/Quality Assurance Plans & Comments**

4. 3. 2. . Vol. 2 - 1090210 DOC ID: 130973 IMAGED  
DATE: 4/14/1997 PAGES: 52  
AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Letter transmitting the Draft Addendum to the Phase I Site Evaluation Field Sampling Plan.

4. 3. 2. . Vol. 2 - 1090211 DOC ID: 130974 IMAGED  
DATE: 4/29/1997 PAGES: 2  
AUTHOR(S): Dan Alexanian/Washington State Dept. of Ecology  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: E-mail providing Dept. of Ecology comments on the Draft Phase II Field Sampling Plan Addendum, BOC Gases, Vancouver, Washington.

4. 3. 2. . Vol. 2 - 1111260 DOC ID: 137279 IMAGED  
DATE: 5/9/1997 PAGES: 3  
AUTHOR(S): Bernard Zavala/EPA  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Memorandum providing review comments on the Final Field Sampling Plan for Subsurface Investigation of Proposed Plant No. 3 at BOC Gases, Vancouver, WA, Draft Addendum, 4/97.

4. 3. 2. . Vol. 2 - 1090212 DOC ID: 130975 IMAGED  
DATE: 6/1/1997 PAGES: 132  
AUTHOR(S): EA Engineering, Science, & Technology  
ADDRESSEE(S): BOC Gases

DESCRIPTION: Final Quality Assurance/Quality Control Project Plan for Subsurface Investigation of Proposed Plant No. 3 at BOC Gases, Vancouver, Washington.

(BSNCR) BOOMSNUB/AIRCO - BOC GASES NON-TIME CRITICAL REMOVAL AR INDEX

4. 3. 2. . Vol. 2 - 1090223 DOC ID: 131016 IMAGED  
DATE: 6/1/1997 PAGES: 300  
AUTHOR(S): EA Engineering, Science, & Technology  
ADDRESSEE(S): BOC Gases

DESCRIPTION: Final Field Sampling Plan for Subsurface Investigation of Proposed Plant No. 3 at BOC Gases, Vancouver, Washington.

4. 3. 2. . Vol. 2 - 1121273 DOC ID: 141594 IMAGED  
DATE: 6/1/1997 PAGES: 96  
AUTHOR(S): EA Engineering, Science, & Technology  
ADDRESSEE(S): BOC Gases

DESCRIPTION: Final Addendum - Final Field Sampling Plan for Subsurface Investigation of Proposed Plant No. 3, BOC Gases, Vancouver Washington.

4. 3. 2. . Vol. 2 - 1090213 DOC ID: 130976 IMAGED  
DATE: 6/9/1997 PAGES: 3  
AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Letter transmitting corrected pages (included) and complete copies of the Field Sampling Plan for BOC Gases (without attachment).

4. 3. 2. . Vol. 2 - 1090214 DOC ID: 130989 IMAGED  
DATE: 6/9/1997 PAGES: 1  
AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Letter transmitting the corrected pages and complete copies of the Quality Assurance/Quality Control Project Plan (without attachments).

4. 3. 2. . Vol. 2 - 1111261 DOC ID: 137281 IMAGED  
DATE: 6/9/1997 PAGES: 2  
AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology  
ADDRESSEE(S): Dan Alexanian/Washington State Dept. of Ecology  
Deborah J. Yamamoto/EPA  
Bernard Zavala/EPA

DESCRIPTION: Fax transmitting the BOC FSP section describing the additional investigation around AMW-12A, requesting comments, with handwritten notes.

4. 3. 2. . Vol. 2 - 1090216 DOC ID: 131002 IMAGED  
DATE: 6/27/1997 PAGES: 6  
AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Fax cover sheet transmitting the errata sheets for the BOC Final Addendum Final Field Sampling Plan for Subsurface Investigation of Proposed Plant No. 3.

(BSNCR) BOOMSNUB/AIRCO - BOC GASES NON-TIME CRITICAL REMOVAL AR INDEX

4. 3. 2. . Vol. 2 - 1090217 DOC ID: 131003 IMAGED  
DATE: 7/3/1997 PAGES: 2

AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, &  
Technology  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Letter transmitting the Addendum to the Site Safety and Health Plan, Revision 1, for BOC Gases Vancouver, Washington.

4. 3. 2. . Vol. 2 - 1090252 DOC ID: 131006 IMAGED  
DATE: 7/3/1997 PAGES: 4

AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, &  
Technology  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Letter transmitting the errata sheet for the Phase II FSP in response to EPA comments dated 6/23/97.

4. 3. 2. . Vol. 2 - 1090218 DOC ID: 131007 IMAGED  
DATE: 12/1/1997 PAGES: 16

AUTHOR(S): EA Engineering, Science, & Technology  
ADDRESSEE(S): BOC Gases

DESCRIPTION: Draft Addendum II for the Final Field Sampling Plan for Subsurface Investigation of Proposed Plant No. 3 at BOC Gases, Vancouver, Washington.

4. 3. 2. . Vol. 2 - 1090219 DOC ID: 131010 IMAGED  
DATE: 12/1/1997 PAGES: 1

AUTHOR(S): Deborah J. Yamamoto/EPA  
ADDRESSEE(S): Unknown

DESCRIPTION: Comments on Draft Addendum II - Final Field Sampling Plan for Subsurface Investigation of Proposed Plan No. 3 at BOC Gases, Vancouver, Washington.

4. 3. 2. . Vol. 2 - 1090220 DOC ID: 131011 IMAGED  
DATE: 12/31/1997 PAGES: 1

AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, &  
Technology  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Letter transmitting the Draft Field Sampling Plan Addendum II for Final Field Sampling Plan for Subsurface Investigation of Proposed Plant No. 3 at BOC Gases, Vancouver, Washington (without attachment).

4. 3. 2. . Vol. 2 - 1090221 DOC ID: 131012 IMAGED  
DATE: 1/1/1998 PAGES: 17

AUTHOR(S): EA Engineering, Science, & Technology  
ADDRESSEE(S): BOC Gases

DESCRIPTION: Final Addendum II for Final Field Sampling Plan for Subsurface Investigation of Proposed Plant No. 3 at BOC Gases, Vancouver, Washington.

4. 3. 2. . Vol. 2 - 1090222 DOC ID: 131013 IMAGED  
DATE: 1/9/1998 PAGES: 1

AUTHOR(S):  
ADDRESSEE(S):

(BSNCR) BOOMSNUB/AIRCO - BOC GASES NON-TIME CRITICAL REMOVAL AR INDEX

Glenn A. Hayman/EA Engineering, Science, & Technology

Deborah J. Yamamoto/EPA

DESCRIPTION: Letter transmitting the Final Field Sampling Plan Addendum II for Final Field Sampling Plan for Subsurface Investigation of Proposed Plant No. 3 at BOC Gases, Vancouver, Washington (without attachment).

**SUB-HEAD: 4. 3. 3. . Vol. 1 - Site Safety Plan and Comments**

4. 3. 3. . Vol. 1 - 1111241 DOC ID: 141596 IMAGED  
DATE: 4/1/1997 PAGES: 84

AUTHOR(S): EA Engineering, Science, & Technology  
ADDRESSEE(S): BOC Gases

DESCRIPTION: Site Safety and Health Plan for BOC Gases - Revision 1.

4. 3. 3. . Vol. 1 - 1069216 DOC ID: 110803 IMAGED  
DATE: 3/1/1999 PAGES: 26

AUTHOR(S): EA Engineering, Science, & Technology  
ADDRESSEE(S): BOC Gases

DESCRIPTION: Addendum for Health and Safety Plan for Work Performed on the Bonneville Power Administration Property.

4. 3. 3. . Vol. 1 - 1111263 DOC ID: 137283  
DATE: 3/29/1999 PAGES: 1

AUTHOR(S): Deborah J. Yamamoto/EPA  
ADDRESSEE(S): Glenn A. Hayman/EA Engineering, Science, & Technology

DESCRIPTION: Letter stating that the EPA has no comments on the report: Addendum for the BOC Health and Safety Plan for work performed on the Bonneville Power Administration Property.

**SUB-HEAD: 4. 3. 4. . Vol. 1 - Site Evaluation Reports**

4. 3. 4. . Vol. 1 - 1111264 DOC ID: 137284 IMAGED  
DATE: 6/6/1997 PAGES: 6

AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Fax transmitting data from soil sampling at BOC gases, the text will be inserted in the revised Site Evaluation Report.

4. 3. 4. . Vol. 1 - 1090549 DOC ID: 132640 IMAGED  
DATE: 8/11/1997 PAGES: 12

AUTHOR(S): EA Engineering, Science, & Technology  
ADDRESSEE(S): Unknown

DESCRIPTION: Log of Soil Boring: AMW-25.

4. 3. 4. . Vol. 1 - 1111242 DOC ID: 137238 IMAGED  
DATE: 1/1/1999 PAGES: 200

AUTHOR(S):  
ADDRESSEE(S):

(BSNCR) BOOMSNUB/AIRCO - BOC GASES NON-TIME CRITICAL REMOVAL AR INDEX

EA Engineering, Science, & Technology

BOC Gases

DESCRIPTION: Final - Proposed Plant No. 3 Decision Document, BOC Gases, Vancouver, Washington.

4. 3. 4. . Vol. 1 - 1111248 DOC ID: 137244  
DATE: 5/1/2000 PAGES: 680  
AUTHOR(S): EA Engineering, Science, & Technology  
ADDRESSEE(S): BOC Gases

DESCRIPTION: Final - Phase I Site Evaluation Report, Appendix K - CAS Laboratory Reports.  
Vol. 1 of 2. Volume 1 is divided into two parts.

**SUB-HEAD: 4. 3. 4. . Vol. 2 - Site Evaluation Reports**

4. 3. 4. . Vol. 2 - 1111249 DOC ID: 137246  
DATE: 5/1/2000 PAGES: 407  
AUTHOR(S): EA Engineering, Science, & Technology  
ADDRESSEE(S): BOC Gases

DESCRIPTION: Final - Phase I Site Evaluation Report, Appendix K - CAS Laboratory Reports.  
Vol. 2 of 2.

4. 3. 4. . Vol. 2 - 1111251 DOC ID: 137247  
DATE: 5/1/2000 PAGES: 368  
AUTHOR(S): EA Engineering, Science, & Technology  
ADDRESSEE(S): BOC Gases

DESCRIPTION: Final - Phase I Site Evaluation Report.

4. 3. 4. . Vol. 2 - 1111252 DOC ID: 137248  
DATE: 5/1/2000 PAGES: 297  
AUTHOR(S): EA Engineering, Science, & Technology  
ADDRESSEE(S): BOC Gases

DESCRIPTION: Final - Phase II Site Evaluation Report.

**SUB-HEAD: 4. 3. 4. . Vol. 3 - Site Evaluation Reports**

4. 3. 4. . Vol. 3 - 1111253 DOC ID: 137250  
DATE: 5/1/2000 PAGES: 359  
AUTHOR(S): EA Engineering, Science, & Technology  
ADDRESSEE(S): BOC Gases

DESCRIPTION: Final - Phase II Site Evaluation Report Appendix G.

4. 3. 4. . Vol. 3 - 1111265 DOC ID: 137285  
DATE: 5/9/2000 PAGES: 13  
AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Fax transmitting Phase II Site Evaluation Report pages with changes.

**SUB-HEAD: 4. 3. 4. 1. Vol. 1 - Comments**

4. 3. 4. 1. Vol. 1 - 1111266 DOC ID: 137286  
DATE: PAGES: 3  
AUTHOR(S): ADDRESSSEE(S):  
Deborah J. Yamamoto/EPA Unknown

DESCRIPTION: EPA and Ecology Comments on the Draft Phase I Site Evaluation Report, annotated.

4. 3. 4. 1. Vol. 1 - 1111267 DOC ID: 137287  
DATE: PAGES: 2  
AUTHOR(S): ADDRESSSEE(S):  
Bernard Zavala/EPA Deborah J. Yamamoto/EPA

DESCRIPTION: Memorandum providing review comments on the Draft Plant 3 Decision Document.

4. 3. 4. 1. Vol. 1 - 1111268 DOC ID: 137288  
DATE: 6/4/1997 PAGES: 9  
AUTHOR(S): ADDRESSSEE(S):  
Deborah J. Yamamoto/EPA Michael S. Resh/BOC Gases

DESCRIPTION: Letter providing EPA comments on the Draft Phase I Site Evaluation Report, 4/25/97.

4. 3. 4. 1. Vol. 1 - 1111273 DOC ID: 137293  
DATE: 6/13/1997 PAGES: 3  
AUTHOR(S): ADDRESSSEE(S):  
Glenn A. Hayman/EA Engineering, Science, & Technology Bernard Zavala/EPA

DESCRIPTION: Fax transmitting revised conclusions for the Phase I Site Evaluation report, requesting comments.

4. 3. 4. 1. Vol. 1 - 1111269 DOC ID: 137289  
DATE: 4/1/1998 PAGES: 13  
AUTHOR(S): ADDRESSSEE(S):  
Deborah J. Yamamoto/EPA Unknown

DESCRIPTION: Comments on Draft Phase II Site Evaluation Report, BOC Gases, annotated.

4. 3. 4. 1. Vol. 1 - 1111270 DOC ID: 137290  
DATE: 4/1/1998 PAGES: 2  
AUTHOR(S): ADDRESSSEE(S):  
John P. Frerich/ICF Kaiser Unknown

DESCRIPTION: Review comments on Draft Phase II Site Evaluation Report, BOC Gases.

4. 3. 4. 1. Vol. 1 - 1111271 DOC ID: 137291  
DATE: 4/29/1998 PAGES: 4  
AUTHOR(S): ADDRESSSEE(S):  
Dan Alexanian/Washington State Dept. of Ecology Deborah J. Yamamoto/EPA

DESCRIPTION: Letter containing comments on the Draft Phase II Site Evaluation Report at BOC Gases.

(BSNCR) BOOMSNUB/AIRCO - BOC GASES NON-TIME CRITICAL REMOVAL AR INDEX

4. 3. 4. 1. Vol. 1 - 1111272 DOC ID: 137292  
DATE: 5/26/1998 PAGES: 5  
AUTHOR(S):  
Bernard Zavala/EPA

ADDRESSEE(S):  
Deborah J. Yamamoto/EPA

DESCRIPTION: Memorandum providing review comments on the Draft Phase II Site Evaluation Report, for BOC Gases.

4. 3. 4. 1. Vol. 1 - 1090254 DOC ID: 131023 IMAGED  
DATE: 6/17/1998 PAGES: 11  
AUTHOR(S):  
Glenn A. Hayman/EA Engineering, Science, &  
Technology

ADDRESSEE(S):  
Deborah J. Yamamoto/EPA

DESCRIPTION: Letter transmitting the Streamlined Risk Assessment for the BOC Soil OU - annotated.

4. 3. 4. 1. Vol. 1 - 1111274 DOC ID: 137294  
DATE: 6/23/1998 PAGES: 15  
AUTHOR(S):  
Deborah J. Yamamoto/EPA

ADDRESSEE(S):  
Michael S. Resh/BOC Gases

DESCRIPTION: Letter transmitting the EPA's comments on the Draft Phase II Site Evaluation Report, BOC Gases.

4. 3. 4. 1. Vol. 1 - 1090255 DOC ID: 131024 IMAGED  
DATE: 7/16/1998 PAGES: 3  
AUTHOR(S):  
Glenn A. Hayman/EA Engineering, Science, &  
Technology

ADDRESSEE(S):  
Deborah J. Yamamoto/EPA

DESCRIPTION: Letter transmitting the Streamlined ecological risk evaluation for the BOC Soil OU for inclusion in chapter 4 of the Phase II Site Evaluation Report.

4. 3. 4. 1. Vol. 1 - 1090256 DOC ID: 131025 IMAGED  
DATE: 7/23/1998 PAGES: 1  
AUTHOR(S):  
Dan Alexanian/Washington State Dept. of Ecology

ADDRESSEE(S):  
Deborah J. Yamamoto/EPA

DESCRIPTION: E-mail providing comments on the streamlined ecological risk evaluation.

4. 3. 4. 1. Vol. 1 - 1090257 DOC ID: 131026 IMAGED  
DATE: 8/13/1998 PAGES: 1  
AUTHOR(S):  
Julius U. Nwosu/EPA

ADDRESSEE(S):  
Deborah J. Yamamoto/EPA

DESCRIPTION: Memorandum providing comments on the Draft Streamlined Ecological Risk Assessment for BOC Gases, Vancouver, Washington.

4. 3. 4. 1. Vol. 1 - 1090258 DOC ID: 131027 IMAGED  
DATE: 8/26/1998 PAGES: 1  
AUTHOR(S):  
Dana Davoli/EPA

ADDRESSEE(S):  
Deborah J. Yamamoto/EPA

(BSNCR) BOOMSNUB/AIRCO - BOC GASES NON-TIME CRITICAL REMOVAL AR INDEX

DESCRIPTION: E-mail providing a review of BOC Gases Risk Report.

4. 3. 4. 1. Vol. 1 - 1090259 DOC ID: 131028 IMAGED  
DATE: 10/14/1998 PAGES: 5  
AUTHOR(S): Dana Davoli/EPA  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Memorandum providing comments on BOC Gases Streamlined Risk Evaluation, annotated.

4. 3. 4. 1. Vol. 1 - 1090260 DOC ID: 131029 IMAGED  
DATE: 10/30/1998 PAGES: 9  
AUTHOR(S): Deborah J. Yamamoto/EPA  
ADDRESSEE(S): Glenn A. Hayman/EA Engineering, Science, & Technology

DESCRIPTION: Letter transmitting EPA comments on the draft Streamlined Risk Evaluation, BOC Gases Operable Soil Unit.

4. 3. 4. 1. Vol. 1 - 1121250 DOC ID: 141048  
DATE: 2/9/1999 PAGES: 1  
AUTHOR(S): Dan Alexanian/Washington State Dept. of Ecology  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: E-mail providing comments on BOC's Final Plant 3 Decision Document.

4. 3. 4. 1. Vol. 1 - 1090262 DOC ID: 131030 IMAGED  
DATE: 3/4/1999 PAGES: 1  
AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: E-mail transmitting the text for the Human Health Risk Evaluation (without attachment).

4. 3. 4. 1. Vol. 1 - 1111275 DOC ID: 137295  
DATE: 3/20/2000 PAGES: 5  
AUTHOR(S): Deborah J. Yamamoto/EPA  
ADDRESSEE(S): Glenn A. Hayman/EA Engineering, Science, & Technology

DESCRIPTION: Fax transmitting comments on the Phase I Site Evaluation Report.

**SUB-HEAD: 4. 3. 5. . Vol. 1 - Engineering Evaluation/Cost Analysis & Comments**

4. 3. 5. . Vol. 1 - 1090231 DOC ID: 131049 IMAGED  
DATE: PAGES: 4  
AUTHOR(S): Washington State Dept. of Ecology  
ADDRESSEE(S): EPA

DESCRIPTION: Annotated Comments/Responses for unknown report (incomplete). Document received from Washington Dept. of Ecology according to RPM.

4. 3. 5. . Vol. 1 - 1090233 DOC ID: 131051 IMAGED  
DATE: 4/1/1998 PAGES: 17  
AUTHOR(S):  
ADDRESSEE(S):

(BSNCR) BOOMSNUB/AIRCO - BOC GASES NON-TIME CRITICAL REMOVAL AR INDEX

Deborah J. Yamamoto/EPA

Unknown

DESCRIPTION: Comments on the Draft Engineering Evaluation/Cost Analysis - BOC Gases.

4. 3. 5. . Vol. 1 - 1090234 DOC ID: 131052 IMAGED  
DATE: 4/1/1998 PAGES: 6  
AUTHOR(S): ADDRESSSEE(S):  
Deborah J. Yamamoto/EPA Unknown

DESCRIPTION: Review Comments on the Draft Engineering Evaluation/Cost Analysis - BOC Gases.

4. 3. 5. . Vol. 1 - 1090236 DOC ID: 131054 IMAGED  
DATE: 5/4/1998 PAGES: 18  
AUTHOR(S): ADDRESSSEE(S):  
Deborah J. Yamamoto/EPA Michael S. Resh/BOC Gases

DESCRIPTION: Letter transmitting the EPA's comments on the Draft Engineering Evaluation/Cost Analysis, BOC Gases.

4. 3. 5. . Vol. 1 - 1090237 DOC ID: 131055 IMAGED  
DATE: 6/8/1998 PAGES: 1  
AUTHOR(S): ADDRESSSEE(S):  
Glenn A. Hayman/EA Engineering, Science, & Deborah J. Yamamoto/EPA  
Technology

DESCRIPTION: E-mail regarding EE/CA Comment #44.

4. 3. 5. . Vol. 1 - 1111276 DOC ID: 137296  
DATE: 7/10/1998 PAGES: 1  
AUTHOR(S): ADDRESSSEE(S):  
Colin Wagoner/ICF Kaiser Deborah J. Yamamoto/EPA

DESCRIPTION: E-mail comments on the Draft Final EE/CA for BOC Gases.

4. 3. 5. . Vol. 1 - 1111923 DOC ID: 139354  
DATE: 5/1/2000 PAGES: 2  
AUTHOR(S): ADDRESSSEE(S):  
Dan Alexanian/Washington State Dept. of Ecology Deborah J. Yamamoto/EPA

DESCRIPTION: Memorandum presenting comments on the Draft Final Engineering Evaluation/Cost Analysis (EE/CA), BOC Gases, June 1998, annotated.

4. 3. 5. . Vol. 1 - 1111277 DOC ID: 137297  
DATE: 5/25/2000 PAGES: 7  
AUTHOR(S): ADDRESSSEE(S):  
Glenn A. Hayman/EA Engineering, Science, & Deborah J. Yamamoto/EPA  
Technology

DESCRIPTION: Fax transmitting Acree and Ross comments on the EE/CA and G. Hayman's response.

4. 3. 5. . Vol. 1 - 1111924 DOC ID: 139356  
DATE: 7/26/2000 PAGES: 3  
AUTHOR(S): ADDRESSSEE(S):

(BSNCR) BOOMSNUB/AIRCO - BOC GASES NON-TIME CRITICAL REMOVAL AR INDEX

Glenn A. Hayman/EA Engineering, Science, & Technology

Deborah J. Yamamoto/EPA

DESCRIPTION: Response to comments on the Draft Final Engineering Evaluation/Cost Analysis (EE/CA) for the BOC Gases Operable Unit.

4. 3. 5. . Vol. 1 - 1111925 DOC ID: 139357  
DATE: 8/1/2000 PAGES: 44

AUTHOR(S):  
EA Engineering, Science, & Technology

ADDRESSEE(S):  
BOC Gases

DESCRIPTION: Final Engineering Evaluation/Cost Analysis (EE/CA).

4. 3. 5. . Vol. 1 - 1111926 DOC ID: 139358  
DATE: 8/4/2000 PAGES: 1

AUTHOR(S):  
Glenn A. Hayman/EA Engineering, Science, & Technology

ADDRESSEE(S):  
Deborah J. Yamamoto/EPA

DESCRIPTION: Letter transmitting the Final Engineering Evaluation/Cost Analysis (EE/CA), less attachment.

4. 3. 5. . Vol. 1 - 1121249 DOC ID: 141049  
DATE: 9/22/2000 PAGES: 1

AUTHOR(S):  
Deborah J. Yamamoto/EPA

ADDRESSEE(S):  
Bernard Zavala/EPA

DESCRIPTION: E-mail chain regarding comments on the Final Engineering Evaluation/Cost Analysis for the BOC Gases Operable unit.

**SUB-HEAD: 4. 4. . . Vol. 1 - Sampling Data**

4. 4. . . Vol. 1 - 1030744 DOC ID: 71042 IMAGED  
DATE: 1/29/1997 PAGES: 36

AUTHOR(S):  
Lynda Huckestein/Columbia Analytical Services, Inc.

ADDRESSEE(S):  
Glenn A. Hayman/EA Engineering, Science, & Technology

DESCRIPTION: Sampling data for BOC Gases/12040.19, samples submitted 1/23/97.

4. 4. . . Vol. 1 - 1030773 DOC ID: 71082 IMAGED  
DATE: 1/30/1997 PAGES: 500

AUTHOR(S):  
Michael A. Korosec/Transglobal Environmental Geosciences Northwest

ADDRESSEE(S):  
Glenn A. Hayman/EA Engineering, Science, & Technology

DESCRIPTION: Data analysis for BOC Gases/12040.19, samples submitted 1/20/97 through 1/24/97.

**SUB-HEAD: 4. 4. . . Vol. 2 - Sampling Data**

4. 4. . . Vol. 2 - 1030774 DOC ID: 71083 IMAGED  
DATE: 1/31/1997 PAGES: 208

AUTHOR(S):  
Lynda Huckestein/Columbia Analytical Services, Inc.

ADDRESSEE(S):  
Glenn A. Hayman/EA Engineering, Science, & Technology

(BSNCR) BOOMSNUB/AIRCO - BOC GASES NON-TIME CRITICAL REMOVAL AR INDEX

DESCRIPTION: Data analysis for BOC Gases, samples submitted 1/22/97.

4. 4. . . . Vol. 2 - 1030775 DOC ID: 71084 IMAGED  
DATE: 1/31/1997 PAGES: 89

AUTHOR(S): Lynda Huckestein/Columbia Analytical Services, Inc. ADDRESSEE(S): Glenn A. Hayman/EA Engineering, Science, & Technology

DESCRIPTION: Data analysis for BOC Gases, samples submitted 1/22/97.

4. 4. . . . Vol. 2 - 1030777 DOC ID: 71086 IMAGED  
DATE: 1/31/1997 PAGES: 139

AUTHOR(S): Lynda Huckestein/Columbia Analytical Services, Inc. ADDRESSEE(S): Glenn A. Hayman/EA Engineering, Science, & Technology

DESCRIPTION: Data analysis BOC Gases/12040.19, samples submitted 1/23/97.

4. 4. . . . Vol. 2 - 1030779 DOC ID: 71088 IMAGED  
DATE: 1/31/1997 PAGES: 112

AUTHOR(S): Lynda Huckestein/Columbia Analytical Services, Inc. ADDRESSEE(S): Glenn A. Hayman/EA Engineering, Science, & Technology

DESCRIPTION: Data analysis for BOC Gases/12040.19, samples submitted 1/24/97.

**SUB-HEAD: 4. 4. . . . Vol. 3 - Sampling Data**

4. 4. . . . Vol. 3 - 1030776 DOC ID: 71085 IMAGED  
DATE: 1/31/1997 PAGES: 240

AUTHOR(S): Lynda Huckestein/Columbia Analytical Services, Inc. ADDRESSEE(S): Glenn A. Hayman/EA Engineering, Science, & Technology

DESCRIPTION: Data analysis for BOC Gases/12040.19, samples submitted 1/23/97.

4. 4. . . . Vol. 3 - 1030778 DOC ID: 71087 IMAGED  
DATE: 1/31/1997 PAGES: 141

AUTHOR(S): Lynda Huckestein/Columbia Analytical Services, Inc. ADDRESSEE(S): Glenn A. Hayman/EA Engineering, Science, & Technology

DESCRIPTION: Data analysis for BOC Gases, samples submitted 1/23/97.

4. 4. . . . Vol. 3 - 1030780 DOC ID: 71089 IMAGED  
DATE: 2/3/1997 PAGES: 116

AUTHOR(S): Lynda Huckestein/Columbia Analytical Services, Inc. ADDRESSEE(S): Glenn A. Hayman/EA Engineering, Science, & Technology

DESCRIPTION: Data analysis for BOC/12040.19, samples submitted 1/24/97.

4. 4. . . . Vol. 3 - 1030781 DOC ID: 71090 IMAGED  
DATE: 2/5/1997 PAGES: 137

AUTHOR(S): Lynda Huckestein/Columbia Analytical Services, Inc. ADDRESSEE(S): Glenn A. Hayman/EA Engineering, Science, & Technology

(BSNCR) BOOMSNUB/AIRCO - BOC GASES NON-TIME CRITICAL REMOVAL AR INDEX

DESCRIPTION: Data analysis for BOC Gases/12040.19, samples submitted 1/31/97.

4. 4. . . . Vol. 3 - 1030736 DOC ID: 71036 IMAGED  
DATE: 3/5/1997 PAGES: 16  
AUTHOR(S): Ginna Grepo-Grove/EPA  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Data Validation Report for the Volatile Halogenated and Aromatic Hydrocarbons Analysis of Samples.

4. 4. . . . Vol. 3 - 1030737 DOC ID: 71037 IMAGED  
DATE: 3/5/1997 PAGES: 70  
AUTHOR(S): Ginna Grepo-Grove/EPA  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Data Validation Report for Volatile Organic Analysis (VOA) of Samples.

**SUB-HEAD: 4. 4. . . . Vol. 4 - Sampling Data**

4. 4. . . . Vol. 4 - 1080330 DOC ID: 93693 IMAGED  
DATE: 7/21/1997 PAGES: 16  
AUTHOR(S): EA Engineering, Science, & Technology  
ADDRESSEE(S): EPA

DESCRIPTION: Soil sampling results for numerous locations.

4. 4. . . . Vol. 4 - 1090225 DOC ID: 131043 IMAGED  
DATE: 9/25/1997 PAGES: 1  
AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology  
ADDRESSEE(S): Ginna Grepo-Grove/EPA

DESCRIPTION: Letter transmitting laboratory reports for data validation with reference numbers listed (without attachment).

4. 4. . . . Vol. 4 - 1030969 DOC ID: 92217 IMAGED  
DATE: 11/5/1997 PAGES: 325  
AUTHOR(S): Ginna Grepo-Grove/EPA  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Data Validation Report for Volatile Organic Analysis (VOA) of Samples from Boomsnub.

4. 4. . . . Vol. 4 - 1090226 DOC ID: 131045 IMAGED  
DATE: 11/11/1997 PAGES: 131  
AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology  
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Preliminary Data Deliverable for the Phase II Site Evaluation, BOC Gases.

4. 4. . . . Vol. 4 - 1090227 DOC ID: 131046 IMAGED  
DATE: 4/8/1998 PAGES: 12  
AUTHOR(S):  
ADDRESSEE(S):

(BSNCR) BOOMSNUB/AIRCO - BOC GASES NON-TIME CRITICAL REMOVAL AR INDEX

Glenn A. Hayman/EA Engineering, Science, &  
Technology

Deborah J. Yamamoto/EPA

DESCRIPTION: Fax cover sheet transmitting the quant reports for BOC Gases.

4. 4. . . . Vol. 4 - 1090228 DOC ID: 131047 IMAGED  
DATE: 10/14/1998 PAGES: 4  
AUTHOR(S): BOC Gases ADDRESSEE(S):  
Unknown

DESCRIPTION: EPA Form R Part II. Chemical-Specific Information (continued).

4. 4. . . . Vol. 4 - 1090229 DOC ID: 131048 IMAGED  
DATE: 10/14/1998 PAGES: 8  
AUTHOR(S): James Merriam/BOC Gases ADDRESSEE(S):  
Deborah J. Yamamoto/EPA

DESCRIPTION: Fax cover sheet transmitting TRI report data for 1996.

**SUB-HEAD: 4. 6. . . . Vol. 1 - Decision Documents (Approval Memo & Action Memo)**

4. 6. . . . Vol. 1 - 1090249 DOC ID: 131083 IMAGED  
DATE: 2/18/1998 PAGES: 9  
AUTHOR(S): Deborah J. Yamamoto/EPA ADDRESSEE(S):  
Randall F. Smith/EPA

DESCRIPTION: Memorandum requesting approval to proceed with an EE/CA for the soil and ground water at the BOC Gases Operable Unit of the Boomsnub/Airco Superfund Site.

**SUB-HEAD: 4. 8. . . . Vol. 1 - Preferred Alternative**

4. 8. . . . Vol. 1 - 1121568 DOC ID: 144265  
DATE: 1/1/2001 PAGES: 4  
AUTHOR(S): EPA ADDRESSEE(S):  
Unknown

DESCRIPTION: Fact sheet proposing a cleanup remedy for the BOC Gases property, requesting public comments.

**HEADING: 6. 0. . . REMEDIAL ACTION**

**SUB-HEAD: 6. 4. . . Vol. 1 - Operation and Maintenance**

**SUB-HEAD: 6. 4. 4. . Vol. 1 - POTW Pretreatment Permit**

**SUB-HEAD: 6. 4. 4. 2. Vol. 1 - Permits**

6. 4. 4. 2. Vol. 1 - 1097573 DOC ID: 127978 IMAGED  
DATE: 8/27/1999 PAGES: 28  
AUTHOR(S): Richard Hoiland/City of Vancouver ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Letter transmitting Industrial Discharge Permit No. 99-03, and the permit fact sheet.

**SUB-HEAD: 6. 7. . . Vol. 1 - Trip Reports**

6. 7. . . Vol. 1 - 1090483 DOC ID: 132154 IMAGED  
DATE: 1/1/2000 PAGES: 465  
AUTHOR(S): Gregory T. Burgess/URS Greiner, Inc. ADDRESSEE(S): Deborah J. Yamamoto/EPA  
Bernard Zavala/EPA  
Glenn A. Hayman/EA Engineering, Science, & Technology  
Dan Alexanian/Washington State Dept. of Ecology

DESCRIPTION: Trip Report - Semiannual Groundwater Sampling, dated 5/99 with transmittal form.

6. 7. . . Vol. 1 - 1111345 DOC ID: 137446  
DATE: 4/1/2000 PAGES: 587  
AUTHOR(S): URS Greiner, Inc. ADDRESSEE(S): EPA

DESCRIPTION: Final Trip Report Semiannual Groundwater Sampling - October 1999 for Boomsnub/Airco Superfund Site.

**HEADING: 12. 0. . . ENFORCEMENT**

**SUB-HEAD: 12. 3. . . Vol. 1 - Administrative Orders & Amendments**

12. 3. . . Vol. 1 - 1030319 DOC ID: 68050 IMAGED

DATE: 1/21/1997 PAGES: 55

AUTHOR(S):

Cynthia L. Mackey/EPA

ADDRESSEE(S):

Peter H. Haller/Ater Wynne Hewitt Dodson & Skerritt

DESCRIPTION: Final Administrative Order on Consent with BOC Gases.