ANL/ESD/TM-11

Argonne's Performance Assessment of Major Facility Systems to Support Semiconductor Manufacturing by the National Security Agency/R Group, Ft. Meade, Maryland:

Document Index

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CONTENTS

INTRODUCTION.....	v
EXPLANATION OF FILE INDEXES.....	x
1 QUALITY-ASSURED RECORDS OF FORMAL AND INFORMAL REVIEWS.....	1
1.1 Index of Documents Pertaining to U.S. Army Corps of Engineers / Baltimore District (USACE/BD)-Sponsored Formal Reviews.....	3
1.1.1 COECI.....	5
1.1.2 COECO.....	6
1.1.3 COEI.....	8
1.1.4 COEO.....	11
1.2 USACE/BD-Sponsored Formal Reviews.....	15
1.2.1 Performance Review of the Clean Room Systems at the Special Process Laboratories Building, Ft. Meade, Maryland.....	17
1.2.2 System Performance Review of the Deionized-Water and Wastewater Treatment Systems at the Special Process Laboratories, Ft. Meade, Maryland.....	20
1.2.3 Special On-Site Review of the High-Purity-Gas Piping System, SPL Building, Ft. Meade, Maryland.....	23
1.3 Index of Documents Pertaining to National Security Agency (NSA)-Sponsored Formal and Informal Reviews.....	25
1.3.1 NSAIN.....	27
1.3.2 NSAIN"A".....	28
1.3.3 NSAIO.....	29
1.3.4 NSAIO"A".....	32
1.3.5 NSAON.....	33
1.3.6 NSAON"A".....	37
1.3.7 NSAOO.....	39
1.3.8 NSAOO"A".....	43
1.4 Index of Documents Pertaining to NSA-Sponsored Formal Reviews.....	45
1.4.1 RNSAIN-OM.....	47
1.4.2 RNSAIO-OM.....	48
1.4.3 RNSAON-OM.....	49
1.4.4 RNSAOO-OM.....	50
1.5 NSA-Sponsored Formal Reviews.....	53
1.5.1 Performance Review of National Semiconductor's (NSC's) Proposed Enhancements to the Clean Room Systems located in NSA's SPL Building at Ft. Meade, Maryland.....	55
1.5.2 Formal Performance Review of the Deionized-Water and Wastewater- Treatment Systems located in NSA's SPL Building at Ft. Meade, Maryland.....	57
1.5.3 Formal Performance Review of the High-Purity-Gas Piping System Located in NSA's SPL Building at Ft. Meade, Maryland.....	58
1.5.4 Formal Performance Review of NSA's Operations and Maintenance Concept for the SPL Building.....	59
1.6 NSA-Sponsored Informal Reviews.....	63
1.6.1 Informal Review of the Proposed Enhancements to the Clean Room Systems, SPL Building, Ft. Meade, Maryland.....	65
1.6.2 Informal Review of Package 5, Environmental Protection Systems Enhancements, SPL Building, Ft. Meade, Maryland.....	67

CONTENTS (Cont'd)

1.6.3	Informal Review of the Lime-Addition System for the Wastewater-Treatment System, SPL Building, Ft. Meade, Maryland	68
1.6.4	Informal Review of the LEPCO/MEBES III Document Review, SPL Building, Ft. Meade, Maryland.....	69
1.6.5	Informal Review of the ION Exchange Associates, Inc., Specifications for Multi-Media Filters, SPL Building, Ft. Meade, Maryland.....	70
1.6.6	Informal Review of the Proposed Enhancements to the Deionized Water System located in the NSA SPL Building, Ft. Meade, Maryland	71
1.6.7	Informal Review of the Sprinkler Sysem, SPL Building, Ft. Meade, Maryland	72
1.6.8	Informal Review of the Chilled Water System, SPL Building, Ft. Meade, Maryland.....	74
2	NON-QUALITY-ASSURED RECORDS OF PROJECT-RELATED DOCUMENTS.....	75
2.1	General Activities File.....	77
2.2	Project Activities File	99
2.3	Project Administration File.....	103
2.4	Review of Request for Information (RFI) Documents.....	107
2.5	Monthly Reports.....	111
2.6	Weekly Reports.....	115
2.7	Daily Reports.....	119
2.8	Support File for Formal Review of NSA's Operations and Maintenance Concept for the SPL Building.....	123
2.9	Basic SPL Specifications and Preliminary Design Calculations.....	127
2.10	Argonne Proposals and NSA Contract Letters.....	133

FIGURES

1	Flowchart of the ANL "Formal-Review" Process.....	vii
2	Location and Custody of the Three Copies of the Records Collected during Argonne National Laboratory's Performance Assessment of Major Facility Systems in NSA's SPL Building	xvii

TABLES

1	File Structure for Documents Generated during USACE/BD-Sponsored Formal Performance Reviews.....	xi
2	File Structure for Documents Generated during NSA-Sponsored Formal Performance Reviews	xii
3	File Structure for the Records for NSA-Sponsored Informal Reviews.....	xiv
4	Project-Related Documents Generated during NSA Sponsorship	xv
5	Outline of File Structure for Formal Reviews, Informal Reviews, and Project-Related Documents Generated during USACE/BD and NSA Sponsorship.....	xvi

INTRODUCTION

BACKGROUND AND PURPOSE

The National Security Agency (NSA) was authorized in 1983 to construct a semiconductor and circuit-board manufacturing plant at its Ft. Meade, Maryland, facility. This facility was to become known as the Special Process Laboratories (SPL) building. Phase I construction was managed by the U.S. Army Corps of Engineers, Baltimore District (USACE/BD) and commenced in January 1986. The Phase I design contractor was HDR, Inc., and the construction contractor was Pike-Paschen. Phase I construction provided the basic building and support systems, such as the heating, ventilating, and air-conditioning system, the deionized-water and wastewater-treatment systems, and the high-purity-gas piping system. Phase II construction involved fitting the semiconductor manufacturing side of the building with manufacturing tools and enhancing various aspects of the Phase I construction. Phase II construction was managed by NSA and commenced in April 1989. The Phase II contractor was National Semiconductor Corporation (NSC). The semiconductor manufacturing side of the SPL building was officially signed over to the government (NSA) on October 1, 1990.

Argonne National Laboratory (ANL) was contracted by USACE/BD midway through the Phase I construction period to provide quality-assured performance reviews of major facility systems in the SPL. Following completion of the Phase I construction, ANL continued its performance reviews under NSA sponsorship, focusing its attention on the enhancements to the various manufacturing support systems of interest.

To accomplish its performance reviews, ANL provided three on-site engineers to gather information on design and construction deficiencies, to witness system acceptance tests, and to act as government technical representatives in meetings between the government and its contractors. When a specific, "formal" performance review was requested by the government, ANL would assemble experts from academia, industry, and consulting firms into peer review panels. Each panel would visit the SPL, consult with ANL's on-site engineers, inspect the system under investigation, and complete a review report based on its findings. Panels were chaired by engineers or scientists from ANL, who conducted the reviews for USACE/BD or NSA.

The purpose of this document is to provide a guide to the files that were generated by ANL during its term of technical assistance to USACE/BD and NSA and to explain the quality assurance program that was implemented when ANL conducted its performance reviews of the SPL building's systems. One set of the ANL project files is located at NSA, Ft. Meade, and two sets are at Argonne, Illinois. The ANL sets will be maintained until the year 2000, or for the 10-year estimated life of the project.

QUALITY ASSURANCE PROGRAM

Historical Perspective

Argonne conducted its formal performance reviews according to a quality assurance (QA) program developed earlier for the U.S. Department of Energy (DOE). The DOE had required peer reviews of government-sponsored contractor reports submitted to satisfy major programmatic milestones of DOE's salt host-rock portion of the Civilian Radioactive Waste Management Program. The salt-rock portion of this DOE program is now defunct, but the QA review procedures developed by ANL under DOE sponsorship were ideally suited to the peer reviews of the SPL systems required by USACE/BD and NSA. (Several "informal" performance reviews of SPL systems were also conducted for ANL's government sponsors. These reviews were designated as *informal* because review documentation did not conform with the requirements for formal reviews, as indicated in Fig. 1.) The methods, controls, and procedures used by Argonne in conducting its formal performance reviews (documented in Argonne National Laboratory Report ANL/EES-TM-312, released in 1986¹) were instituted to ensure that the results of ANL's peer review activities were of the highest quality, were meticulously documented, and were responsive to the needs and directives of DOE and other government sponsors.

QA Review Program Characteristics

The essential characteristics of a formal, ANL-conducted peer review are as follows (see Fig. 1 for the NSA example):

1. *Independent.* The government-agency sponsor provides nothing more than general guidance to ANL when requesting a review. The individual views of expert, auxiliary peer review panelists are obtained and integrated into a written narrative by ANL core panelists acting as editors for comments pertinent to their discipline areas. Each auxiliary panelist must concur with the way in which the ANL editors have represented his/her comments in the draft ANL report and with the associated written presentation relevant to his/her area of expertise. If an auxiliary panelist cannot agree with a relevant aspect of a draft ANL report, the panelist's reasons for lack of agreement are incorporated into the text of the report.
2. *Comprehensive.* ANL-conducted reviews are multidisciplinary and cover relevant technical, regulatory, and institutional issues. The list of available auxiliary panelists covers a wide range of disciplines and can be readily expanded as the need is identified for coverage of additional areas of expertise.

Figure 1. Flowchart of the ANL "Formal-Review" Process (Documentation of a formal review requires generation of an appropriate letter, memo-to-file, or report at each step shown.)

3. *Responsive.* The reviews consider the government sponsor's need to satisfy federal and state regulatory agency requirements, and they are completed in a timely manner. As part of its regular activities, the ANL core group maintains familiarity with the progress and needs of a sponsor's program.
4. *Subject to Quality Assurance (QA).* The reviews are conducted according to a DOE-approved QA plan that follows the relevant stipulations of NQA-1²⁻⁴. The review program has been and will continue to be evaluated and audited by QA specialists from ANL and DOE.
5. *Documented.* Completed reviews are either published as ANL technical memorandums or transmitted in limited numbers to the government-agency sponsor, with backup copies being retained in the project's QA files. In either case, the ANL report transmitted to the sponsor contains a complete record of each review, including a copy of the sponsor's letter requesting the review, the carefully compiled and organized presentation of the panelists' comments, summaries of the credentials of the reviewers, and the action statements resulting from the comment-resolution process (if requested by the sponsor).

To summarize, ANL-conducted peer reviews provide essential guidance to a sponsor on the adequacy and credibility* of the important contractor documents and plans that underpin a sponsor's program. Peer review panelists are unbiased, acknowledged experts in their fields and are independent of government or contractor influence. The ANL core group has the necessary resources and leadership to consistently apply a review method of the highest quality. Application of that method results in comprehensive peer reviews of the technical, regulatory, and institutional aspects of each contractor document that is reviewed. The peer review results, when published and/or distributed, are capable of withstanding intense public and judicial scrutiny.

Relationship to Other QA Programs, Procedures, and Requirements

The original ANL QA program was prepared using several documents as guidance. As stated in DOE Order CH5700.6A of August 13, 1981, DOE policy is that national consensus QA standards are to be applied to its programs if suitable ones are available. In this regard, Title 10, Part 50, of the Code of Federal Regulations (10 CFR 50)⁵ states that ANSI/ASME NQA-1²⁻⁴ is the preferred standard for meeting QA requirements for nuclear facilities. ANL, which is administratively responsible to DOE, has developed and implemented a QA program⁶ in accordance with Order CH5700.6A. As a consequence, the requirements of ANSI/ASME NQA-1 are addressed by the stated QA policies of ANL. Sections 1-19

*Adequacy of documents refers to their ability to meet the relevant regulatory requirements. Credibility of documents refers to the validity of the assumptions, methods, and conclusions, as well as to the completeness of subject matter coverage.

of ANL/EES-TM-312 constitute the QA plan: Secs. 1-18 correspond to the 18 basic QA requirements presented in ANSI/ASME NQA-1, and Sec. 19 presents information on the requirements for deliverables and reporting for the project. Because of the type of work performed for the peer review task, some of the basic requirements of NQA-1 are not applicable. Otherwise, appropriate QA requirements in NQA-1 and in the QA specification supplied by DOE's Salt Repository Project Office (SRPO) are presented, along with responsibilities and activities for meeting those requirements.

The document for ANL's QA program (the "QA plan") also includes seven appendixes. The correspondence between specific elements of the QA specification provided by SRPO and the sections of the QA plan is detailed in App. A. Appendixes B-F present the detailed QA procedures developed for implementing the project QA requirements set forth in the QA plan, and App. G contains information on the requirements for deliverables and reporting for the project. The foregoing procedures and requirements were applied in ANL's conduct of formal performance reviews for USACE/BD and NSA.

Implementation of QA Program for SPL-System Performance Reviews

The goals of the QA program described above, as applied to formal performance reviews of the SPL building's major facility systems, were not always fully achieved. Time constraints were in some cases too severe to permit adherence to every detail specified in the QA procedures for a formal review. To cite one example, a letter from the sponsor requesting a review was sometimes not forthcoming. Rather, verbal instructions were issued on the day that the review team assembled at Ft. Meade. Thus, documents expected from the QA specifications (see, for example, Fig. 1) that are not present in the files are not "missing documents;" they were, in fact, never generated.

REFERENCES

- ¹Edgar, D. E., *Quality Assurance Program: Argonne Peer Review Activities for the Salt Host-Rock Portion of the Civilian Radioactive Waste Management Program*, Argonne National Laboratory Report ANL/EES-TM-312 (Aug. 1986).
- ²*Quality Assurance Program Requirements for Nuclear Facilities*, ANSI/ASME NQA-1-1983 Edition, American Society of Mechanical Engineers, New York (July 1, 1983).
- ³*Addenda to ANSI/ASME NQA-1-1983 Edition*, ANSI/ASME NQA-1-1a-1983, American Society of Mechanical Engineers, New York (Dec. 31, 1983).
- ⁴*Addenda to ANSI/ASME NQA-1-1983 Edition*, ANSI/ASME NQA-1-1b-1984, American Society of Mechanical Engineers, New York (March 15, 1985).
- ⁵*Quality Assurance Criteria for Nuclear Power Plants and Fuel Reprocessing Plants*, Code of Federal Regulations, Title 10, Part 50 (10 CFR 50), App. B (Jan 1, 1985).
- ⁶*ANL Quality Assurance Policy and Procedures Manual*, Argonne National Laboratory (most recently revised on Oct. 2, 1989).

EXPLANATION OF FILE INDEXES

The indexes of files that make up the body of this report inventory all of the records collected during Argonne National Laboratory's performance assessment of major facility systems in NSA's SPL building. One part of the project files consists of quality-assured records for (1) the formal, quality-assured performance reviews conducted for both USACE/BD and NSA and (2) the informal reviews conducted for NSA alone. The other part covers non-quality-assured records for project-related documents (see below).

Here, "quality-assured" refers to the strict procedures used in the handling of documents pertaining to reviews conducted for USACE/BD and NSA. The receipt and/or transmittal of each document was recorded in the indexes that follow. Placement of documents in these files was determined by the source of each document (whether it originated from Argonne, USACE/BD, NSA, or other party). Each document was coded with a prefix (dependent on the type of document) and numbered consecutively by the date it was received. To preserve security, two sets of these files were maintained, labeled QA-1 and QA-2. Documents in these files were stored in locked, fireproof file cabinets. The file cabinets were in two rooms and separated by a masonry wall. "Quality-assured" documents differ from project-related documents in that strict monitoring of correspondence was not required in the case of documents not directly pertaining to a formal or informal review. As a result, it cannot be stated that every document generated or received by ANL has been included in these "non-quality-assured" files.

Formal Review Files

During Phase I of the project, which involved construction of the building shell and the major facility support systems, sponsorship for ANL performance assessments was provided by USACE/BD. During this period, two types of files were kept: a correspondence file and a file for documents pertaining to formal performance reviews. Table 1 illustrates the file structure for the documents generated during USACE/BD-sponsored formal performance reviews. After the completion of Phase I construction, the National Security Agency (NSA) sponsored ANL performance reviews during Phase II construction, the period during which enhancements to the major facility support systems and building fit-up (installation of wafer-fabricating equipment) were accomplished. Files for documents pertaining to quality-assured formal reviews conducted under USACE/BD sponsorship were closed. New files using the same basic structure were created for Phase II formal reviews. Table 2 illustrates the file structure following the advent of NSA sponsorship.

Informal Review Files

As a result of NSA sponsorship, the scope of ANL's performance assessments was broadened to include "informal" reviews of major facility systems. To track non-quality-assured informal reviews, "informal review files" were created for correspondence and performance review reports related to these activities. Documents added to these files were numbered and logged under the same strict controls as documents pertaining to formal reviews. As with the files for the quality-assured reviews, two copies of

Table 1. File Structure for Documents Generated during USACE/BD-Sponsored Formal Performance Reviews

1.1 CORRESPONDENCE	
File Prefix	Explanation
COECI*	Documents originating with USACE and incoming (I) to ANL (Ref. No. 1.1.1)
COECO	Documents originating with ANL and outgoing (O) to USACE (Ref. No. 1.1.2)
COEI	Incoming (I) documents received by ANL and originating from parties other than USACE (Ref. No. 1.1.3)
COEO	Outgoing (O) documents originating from ANL and transmitted to parties other than USACE (Ref. No. 1.1.4)
1.2 FORMAL REVIEWS	
Reference Number	Explanation
1.2.1	All documents pertaining to the Performance Review of the Clean Room Systems at the Special Process Laboratories Building, Ft. Meade, Maryland
1.2.2	All documents pertaining to the System Performance Review of the Deionized Water and Wastewater-Treatment Systems at the Special Process Laboratories, Ft. Meade, Maryland
1.2.3	All documents pertaining to the Special On-Site Review of the High-Purity-Gas Piping System, SPL Building, Ft. Meade, Maryland

* "COE" stands for Corps of Engineers and is shorthand for U. S. Army Corps of Engineers / Baltimore District.

Table 2. File Structure for Documents Generated during NSA-Sponsored Formal Performance Reviews

1.3 & 1.4 CORRESPONDENCE	
File Prefix	Explanation
NSAIN and NSAIN"A"	Documents originating with NSA and incoming (I) to ANL (Ref. Nos. 1.3.1 and 1.3.2)
NSAIO and NSAIO"A"	Incoming (I) documents received by ANL and originating from parties other than NSA (Ref. Nos. 1.3.3 and 1.3.4)
NSAON and NSAON"A"	Documents originating with ANL and outgoing (O) to NSA (Ref. Nos. 1.3.5 and 1.3.6)
NSAOO and NSAOO"A"	Outgoing (O) documents originating with ANL and transmitted to parties other than NSA (Ref. Nos. 1.3.7 and 1.3.8)
RNSAIN-OM	Documents pertaining to the Formal Performance Review of NSA's Operations and Maintenance Concept for the SPL Building, originating with NSA and incoming (I) to ANL (Ref. No. 1.4.1)
RNSAIO-OM	Incoming (I) documents pertaining to the Formal Performance Review of NSA's Operations and Maintenance Concept for the SPL Building received by ANL and originating from parties other than NSA (Ref. No. 1.4.2)
RNSAON-OM	Documents pertaining to the Formal Performance Review of NSA's Operations and Maintenance Concept for the SPL Building, originating with ANL and outgoing (O) to NSA (Ref. No. 1.4.3)
RNSAOO-OM	Outgoing (O) documents pertaining to the Formal Performance Review of NSA's Operations and Maintenance Concept for the SPL Building, originating with ANL and transmitted to parties other than NSA (Ref. No. 1.4.4)
1.5 FORMAL REVIEWS	
Reference Number	Explanation
1.5.1	All documents pertaining to the Formal Performance Review of National Semiconductor's (NSC's) Proposed Enhancements to the Clean Room Systems Located in NSA's SPL Building at Ft. Meade, Maryland
1.5.2	All documents pertaining to the Formal Performance Review of the Deionized-Water and Wastewater-Treatment Systems Located in NSA's SPL Building at Ft. Meade, Maryland
1.5.3	All documents pertaining to the Formal Performance Review of the High-Purity-Gas Piping System Located in NSA's SPL Building at Ft. Meade, Maryland
1.5.4	All documents pertaining to the Formal Performance Review of NSA's Operations and Maintenance Concept for the SPL Building

the informal review files were maintained. Thus, *the records* for NSA-sponsored informal reviews can appropriately be termed "quality-assured." Table 3 illustrates the file structure for the QA records for the informal reviews.

Project-Related Files

In order to more completely document project-related activities, the "General Activities" file was created to encompass all general correspondence and transmittals not directly pertaining to a formal or informal review. Files were also formed to record administrative activities conducted by the ANL principal investigator for the project (Wyman Harrison) and ANL's QA custodian (Gina Miller). Entries in these files are listed in Sec. 2, entitled "Non-Quality-Assured Records of Project-Related Documents." Table 4 outlines the file structure for project-related documents generated during NSA sponsorship. Table 5 illustrates the entire file structure for quality-assured formal and informal reviews and non-quality-assured project-related documents.

Document Numbering and Storage

Each of the documents listed in the pages that follow has been numbered. Each group of documents under a given file number has been separated from other groups by labeled file dividers. One set of documents is stored at ANL in a fireproof locking file cabinet under the custody of John Kelley, ANL Quality Assurance Representative. A second set is maintained by the ANL Project Manager, Wyman Harrison. A third set is in the possession of NSA, having been transferred to David Kokalis (NSA / R-Group) in December 1990. The ANL document sets will be maintained until the year 2000, or for the estimated 10-year life of the SPL. Figure 2 illustrates the location and custody of the three copies of the records collected during Argonne National Laboratory's performance assessment of major facility systems in NSA's SPL building.

Table 3. File Structure for the Records for NSA-Sponsored Informal Reviews

1.6 INFORMAL REVIEWS	
File Prefix	Explanation
NSAIN and NSAIN"A"	Documents originating with NSA and incoming (I) to ANL (Ref. Nos. 1.3.1 and 1.3.2)
NSAIO and NSAIO"A"	Incoming (I) documents received by ANL and originating from parties other than NSA (Ref. Nos. 1.3.3 and 1.3.4)
NSAON and NSAON"A"	Documents originating with ANL and outgoing (O) to NSA (Ref. Nos. 1.3.5 and 1.3.6)
NSAOO and AOO"A"	Outgoing (O) documents originating with ANL and transmitted to parties other than NSA (Ref. Nos. 1.3.7 and 1.3.8)
Reference Number	Explanation
1.6.1	All documents pertaining to the Informal Review of the Proposed Enhancements to the Clean Room Systems, SPL Building, Ft. Meade, Maryland
1.6.2	All documents pertaining to the Informal Review of the Package 5, Environmental Protection Systems Enhancements, SPL Building, Ft. Meade, Maryland
1.6.3	All documents pertaining to the Informal Review of the Lime-Addition System for the Wastewater-Treatment System, SPL Building, Ft. Meade, Maryland
1.6.4	All documents pertaining to the Informal Review of the Lepco/Mebes III Document Review, SPL Building, Ft. Meade, Maryland
1.6.5	All documents pertaining to the Informal Review of the Ion Exchange Associates, Inc., Specifications for Multi-Media Filters, SPL Building, Ft. Meade, Maryland
1.6.6	All documents pertaining to the Informal Review of the Proposed Enhancements to the Deionized Water System Located in the NSA SPL Building, Ft. Meade, Maryland
1.6.7	All documents pertaining to the Informal Review of the Sprinkler System, SPL Building, Ft. Meade, Maryland
1.6.8	All documents pertaining to the Informal Review of the Chilled Water System, SPL Building, Ft. Meade, Maryland

Table 4. Project-Related Documents Generated during NSA Sponsorship

2. FILES FOR PROJECT-RELATED DOCUMENTS

File Prefix	Explanation
GA	General Activities File: All project-related documents not directly pertaining to a formal or informal review and not appropriate for placement in the following files (Ref. No. 2.1)
SPLPA	Project Activities File (Meetings with R-Group Staff): All documents pertaining to administrative directives to ANL by the NSA/R-Group, not directly pertaining to formal or informal reviews and not appropriate for placement in the general activities file (Ref. No. 2.2)
PAF	Project Administration File: All documents pertaining to the custodial maintenance of the quality-assured project files (Ref. No. 2.3)
RFI	Review of Request for Information (RFI) Documents: Reports to sponsor regarding requests for information (Ref. No. 2.4)
MR	Monthly Reports to Sponsor (Ref. No. 2.5)
WR	Weekly Reports to Sponsor (Ref. No. 2.6)
DR	Daily Reports to Sponsor (Ref. No. 2.7)
OMS	Support File for the Formal Performance Review of NSA's Operations and Maintenance Concept for the SPL Building (Ref. No. 2.8)
SD	Basic SPL Specifications and Preliminary Design-Calculations (Ref. No. 2.9)
CD	Argonne Proposals and NSA Contract Letters (Ref. No. 2.10)

Table 5. Outline of File Structure for Formal Reviews, Informal Reviews, and Project-Related Documents Generated during USACE/BD and NSA Sponsorship

1. QUALITY-ASSURED RECORDS OF FORMAL AND INFORMAL PERFORMANCE REVIEWS SPONSORED BY USACE/BD AND NSA			
1.1. Index of Documents Pertaining to USACE/BD-Sponsored Formal Reviews			
1.1.1	COECI	1.1.3	COEI
1.1.2	COECO	1.1.4	COEO
1.2. USACE/BD Formal Reviews			
1.2.1	Performance Review of the Clean Room Systems at the Special Process Laboratories Building, Ft. Meade, Maryland		
1.2.2	System Performance Review of the Deionized-Water and Wastewater-Treatment Systems at the Special Process Laboratories, Ft. Meade, Maryland		
1.2.3	Special On-Site Review of the High-Purity-Gas Piping System, SPL Building, Ft. Meade, Maryland		
1.3. Index of Documents Pertaining to NSA-Sponsored Formal and Informal Reviews			
1.3.1	NSAIN	1.3.4	NSAIO"A"
1.3.2	NSAIN"A"	1.3.5	NSAON
1.3.3	NSAIO	1.3.6	NSAON"A"
		1.3.7	NSA00
		1.3.8	NSA00"A"
1.4. Index of Documents Pertaining to NSA-Sponsored Formal Reviews			
1.4.1	RNSAIN-OM	1.4.3	RNSAON-OM
1.4.2	RNSAIO-OM	1.4.4	RNSA00-OM
1.5. NSA Formal Reviews			
1.5.1	Performance Review of National Semiconductor's (NSC's) Proposed Enhancements to the Clean Room Systems Located in NSA's SPL Building at Ft. Meade, Maryland		
1.5.2	Performance Review of the Deionized-Water and Wastewater-Treatment Systems Located in NSA's SPL Building at Ft. Meade, Maryland		
1.5.3	Performance Review of the High-Purity-Gas Piping System Located in NSA's SPL Building at Ft. Meade, Maryland		
1.5.4	Formal Performance Review of NSA's Operations and Maintenance Concept for the SPL Building		
1.6. NSA Informal Reviews			
1.6.1	Informal Review of the Proposed Enhancements to the Clean Room Systems, SPL Building, Ft. Meade, Maryland		
1.6.2	Informal Review of the Package 5, Environmental Protection Systems Enhancements, SPL Building, Ft. Meade, Maryland		
1.6.3	Informal Review of the Lime-Addition System for the Wastewater-Treatment System, SPL Building, Ft. Meade, Maryland		
1.6.4	Informal Review of the LEPCO/MEBES III Document Review, SPL Building, Ft. Meade, Maryland		
1.6.5	Informal Review of the ION Exchange Associates, Inc., Specifications for Multi-Media Filters, SPL Building, Ft. Meade, Maryland		
1.6.6	Informal Review of the Proposed Enhancements to the Deionized Water System Located in the NSA SPL Building, Ft. Meade, Maryland		
1.6.7	Informal Review of the Sprinkler System, SPL Building, Ft. Meade, Maryland		
1.6.8	Informal Review of the Chilled Water System, SPL Building, Ft. Meade, Maryland		
2. NON-QUALITY-ASSURED FILES OF PROJECT-RELATED DOCUMENTS			
2.1	General Activities File		
2.2	Project Activities File		
2.3	Project Administration File		
2.4	Review of Request For Information (RFI) Documents		
2.5	Monthly Reports		
2.6	Weekly Reports		
2.7	Daily Reports		
2.8	Support File, O&M Concept		
2.9	Basic SPL Specifications and Preliminary Design Calculations		
2.10	Argonne Proposals and NSA Contract Letters

Figure 2. Location and Custody of the Three Copies of the Records Collected during Argonne National Laboratory's Performance Assessment of Major Facility Systems in NSA's SPL Building

**1 QUALITY-ASSURED RECORDS OF FORMAL
 AND INFORMAL REVIEWS**

**1.1 Index of Documents Pertaining to U. S. Army
Corps of Engineers / Baltimore District (USACE/BD)-
Sponsored Formal Reviews**

INDEX FOR CORRESPONDENCE FILE 1.1.1 (COECI)
Documents Incoming from USACE/BD

COECI-	Dated/Rcvd	To/From	Description	Subject
001	112988 / 120888	Harrison/Merski	Letter	Special Gas & Liquid Distribution Systems Review Panelists, SPL, NSA, Ft. Meade, Maryland (Concurrence with ANL Selection of Panelists)
002	120888	Harrison/Merski	Letter	Deionized Water and Industrial Waste Treatment Systems Review Panelists (TP's 11240, 11390) SPL, NSA, Ft. Meade, Maryland (Concurrence with ANL's Selection of Panelists)
003	121288	Harrison/Merski	Letter	Integrated Clean Room Systems Review Panelists, (TP 13040), Special Process Laboratories, National Security Agency, Ft. Meade, Maryland (Concurrence with ANL Selection of Panelists)

INDEX FOR CORRESPONDENCE FILE 1.1.2 (COECO)
Documents Outgoing to USACE/BD

COECO-	Dated/Rcvd	To/From	Description	Subject
001	100488	Magnifico/Harrison	Letter	NSA Area Office Concurrence with ANL's Selection of Panelists for Review of Performance of High-Purity-Gas Piping Systems
			Enclosures	Resumes of Antoinette Engelkemeir, Al Jekel, Herb Stevens, and Stanley Stoy.
002	101488	Magnifico/Harrison	Letter	NSA Area Office Concurrence with ANL's Selection of Panelists for Review of Performance of Deionization and Wastewater-Treatment Systems
			Enclosures	Resumes of Ralph Frost, Robert Peters, William Midkiff, and S. D. Hooks
003	101988	Magnifico/Harrison	Letter	NSA Area Office Concurrence with ANL's Selection of Mr. William V. Collentro as a Panelist for Review of Performance of Deionization and Wastewater-Treatment Systems
			Enclosure	Resume of William Collentro
004	110388	Magnifico/Harrison	Letter	NSA Area Office Concurrence with ANL's Selection of Panelists for Review of Performance of Clean Room Systems in the Special Process Laboratories
			Enclosures	Resume of Nicholas Malik, Robert Naegele, Angelo Rapa, and Herb Stevens
005	111188	Magnifico/Harrison	Letter	Draft ANL Review Report on the Deionized-Water and Wastewater-Treatment Systems at the Special Process Laboratories, Ft. Meade, Maryland
006	120188	Magnifico/Harrison	Letter	Final ANL Review Report on the Deionized-Water and Wastewater-Treatment Systems at the Special Process Laboratories, Ft. Meade, Maryland
007	112988	Magnifico/Harrison	Letter	Draft ANL Review Report on the Clean Room Systems at the Special Process Laboratories, Ft. Meade, Maryland
008	011189	Merski/Harrison	Letter	Final Report for Argonne-Conducted Performance Review of the Clean Room Systems at the Special Process Laboratory Building, Ft. Meade, Maryland
009	013189	Merski/Harrison	Letter	Revised Final ANL Report on Performance of the Clean Room Systems for the Special Process Laboratories, Ft. Meade, Maryland
010	020389	Merski/Harrison	Letter	Revised Page 9 for Final ANL Report on Performance of the Clean Room Systems for the Special Process Laboratories, Ft. Meade, Maryland
011	031089	Merski/Harrison	Letter	Final ANL Report on Performance of the High-Purity-Gas Piping System for the Special Process Laboratories, Ft. Meade, Maryland

INDEX FOR CORRESPONDENCE FILE 1.1.2 (COECO)
Documents Outgoing to USACE/BD

COECO-	Dated/Rcvd	To/From	Description	Subject
012	032989	Merski/Harrison	Letter	Final Results of ANL On-Site Review of the High-Purity-Gas Piping System for the Special Process Laboratories, Ft. Meade, Maryland

INDEX FOR CORRESPONDENCE FILE 1.1.3 (COEI)
Documents Incoming to ANL from Other Than USACE/BD

COEI-	Dated/Rcvd	To/From	Description	Subject
001	102688	Harrison,Peters/Frost	Notes	Comments on Performance Review of the Deionization and Wastewater-Treatment Systems at the NSA's Special Process Facility, Ft. Meade, Maryland (Oct. 21-22, 1988)
002	102688	Harrison,Peters/Midkiff	Notes	Comments on Performance Review of the Deionization and Wastewater-Treatment Systems at the NSA's Special Process Facility, Ft. Meade, Maryland (Oct. 21-22, 1988)
003	102688	Harrison, Peters /Collentro	Notes	Comments on Performance Review of the Deionization and Wastewater-Treatment Systems at the NSA's Special Process Facility, Ft. Meade, Maryland (Oct. 20-21, 1988)
004	110288	Harrison/Rapa	Fax trans	Resume of Mr. Angelo Rapa, Advisory Engineer, of IBM General Technology Division
005	110488	File/Harrison	Memo	Meeting to Scope Technical Review of Special Process Laboratories Clean Rooms, Ft Meade, Maryland
006	101188	File/Harrison	Memo	Initial Meeting to Scope Performance Review of the Deionization and Wastewater-Treatment Systems , Special Process Laboratory, Ft. Meade, Maryland
007	120188	File/Harrison	Memo	USACE response to ANL's Draft System Performance Review Report on the Deionized-Water and Wastewater-Treatment System at the Special Process Laboratories, Ft. Meade, Maryland
008	121688	File/Stevens	Notes	Notes on the 11/16/88 Technical Review of the Clean Room Systems at the National Security Agency's Special Process Laboratories, Ft. Meade, Maryland
009	121688	Harrison/Naegele	Notes	Notes on the 11/16/88 Technical Review of the Clean Room Systems at the National Security Agency's Special Process Laboratories, Ft. Meade, Maryland
010	121688	Harrison/Rapa	Notes	Notes on the 11/16/88 Technical Review of the Clean Room Systems at the National Security Agency's Special Process Laboratories, Ft. Meade, Maryland

INDEX FOR CORRESPONDENCE FILE 1.1.3 (COEI)
Documents Incoming to ANL from Other Than USACE/BD

COEI-	Dated/Rcvd	To/From	Description	Subject
011	120988	Harrison/Collentro	Signature Sheet	Concurrence Agreement for Review of ANL Draft Report of Technical Review of the Deionization and Wastewater-Treatment Systems at the National Security Agency's Special Process Laboratories, Ft. Meade, Maryland
012	120988	Harrison/Frost	Signature Sheet	Concurrence Agreement for Review of ANL Draft Report of Technical Review of the Deionization and Wastewater-Treatment Systems at the National Security Agency's Special Process Laboratories, Ft. Meade, Maryland
013	120988	File/Harrison	Signature Sheet	Concurrence Agreement for Review of ANL Draft Report of Technical Review of the Deionization and Wastewater-Treatment Systems at the National Security Agency's Special Process Laboratories, Ft. Meade, Maryland
014	120988	Harrison/Midkiff	Signature Sheet	Concurrence Agreement for Review of ANL Draft Report of Technical Review of the Deionization and Wastewater-Treatment Systems at the National Security Agency's Special Process Laboratories, Ft. Meade, Maryland
015	120988	Harrison/Peters	Signature Sheet	Concurrence Agreement for Review of ANL Draft Report of Technical Review of the Deionization and Wastewater-Treatment Systems at the National Security Agency's Special Process Laboratories, Ft. Meade, Maryland
016	103188	Harrison/Peters	Notes	Comments on Performance Review of the Deionization and Wastewater-Treatment Systems at the NSA's Special Process Facility, Ft. Meade, Maryland (Oct. 20-21, 1988)
017	100788	File/Harrison	Memo	Performance Review of the High-Purity-Gas Piping System at NSA's Special Process Laboratories, Ft. Meade, Maryland
018	121388	Harrison/Naegele	Signature Sheet	Concurrence Agreement for Performance Review of the Clean Room Systems at the Special Process Laboratories, Fort Meade, Maryland
019	120988	Harrison/Rapa	Signature Sheet	Concurrence Agreement for Performance Review of the Clean Room Systems at the Special Process Laboratories, Fort Meade, Maryland
020	121488	File/Harrison	Signature Sheet	Concurrence Agreement for Performance Review of the Clean Room Systems at the Special Process Laboratories, Fort Meade, Maryland

INDEX FOR CORRESPONDENCE FILE 1.1.3 (COEI)
Documents Incoming to ANL from Other Than USACE/BD

COEI-	Dated/Rcvd	To/From	Description	Subject
021	121488	Harrison/Stevens	Signature Sheet	Concurrence Agreement for Performance Review of the Clean Room Systems at the Special Process Laboratories, Fort Meade, Maryland
022	121988	File/Kulzer	Signature Sheet	Assembled, Composite Signature Sheet: Concurrence Agreement for Performance Review of the Clean Room Systems at the Special Process Laboratories, Fort Meade, Maryland
023	012089	File/Harrison	Memo	USACE-Requested Revision of Final Report on Clean Room Performance Review Originally Submitted to USACE's Walter P. Merski on January 11, 1989
024	020989	File/Harrison	Memo	Initial Meeting to Scope Phase I Review (for USACE)
025	101488	Harrison/Peters	Memo	Trip Itineraries for the Peer Review Committee (Deionization and Wastewater-Treatment Systems at Ft. Meade, Maryland)
026	100188	File/Harrison	Memo	Signature Authorization for P. Kulzer
027	030189	File/Harrison	Memo	Signature Authorization For L. Narug
028	041789	Hill/Stevens	Telecon Record	Regarding High-Purity-Piping System and Outcome of Tests by Slack Associates

INDEX FOR CORRESPONDENCE FILE 1.1.4 (COEO)
Documents Outgoing to Other Than USACE/BD

COEO-	Dated/Rcvd	To/From	Description	Subject
001	101288	Peters/Harrison	Memo	Session Chairmanship for Peer Review of the Deionization and Wastewater-Treatment Systems Located in the NSA Building at Ft. Meade, Maryland
002	101488	Frost/Harrison	Letter	Request for Performance Review of the Deionization and Wastewater-Treatment Systems at the National Security Agency's (NSA's) Special Process Facility, Ft. Meade, Maryland
003	101488	Midkiff/Harrison	Letter	Request for Performance Review of the Deionization and Wastewater-Treatment Systems at the National Security Agency's (NSA's) Special Process Facility, Ft. Meade, Maryland
004	101488	Hooks/Harrison	Letter	Request for Performance Review of the Deionization and Wastewater-Treatment Systems at the National Security Agency's (NSA's) Special Process Facility, Ft. Meade, Maryland
005	101488	Peters/Harrison	Memo	Request for Performance Review of the Deionization and Wastewater-Treatment Systems at the National Security Agency's (NSA's) Special Process Facility, Ft. Meade, Maryland
006	101988	Collentro/Harrison	Letter	Request for Performance Review of the Deionization and Wastewater-Treatment Systems at the National Security Agency's (NSA's) Special Process Facility, Ft. Meade, Maryland
007	101488	Harrison/Harrison	Letter	Request for Performance Review of the Deionization and Wastewater-Treatment Systems at the National Security Agency's (NSA's) Special Process Facility, Ft. Meade, Maryland
008	102888	Stevens/Harrison	Memo	Session Chairmanship for Peer Review of the Clean Room Systems Located in the NSA Building at Ft. Meade, Maryland
009	110288	Peters/Harrison	Memo	Review Comments on the NSA Special Processes Laboratories Deionization and Wastewater-Treatment Systems, Ft. Meade, Maryland, October 21-22, 1988
010	110788	Stevens/Harrison	Memo	Request for Technical Review of the Clean Room Systems at the National Security Agency's (NSA's) Special Process Laboratories, Ft. Meade, Maryland

INDEX FOR CORRESPONDENCE FILE 1.1.4 (COEO)
Documents Outgoing to Other Than USACE/BD

COEO-	Dated/Rcvd	To/From	Description	Subject
011	110788	Harrison/Harrison	Memo	Request for Technical Review of the Clean Room Systems at the National Security Agency's (NSA's) Special Process Laboratories, Ft. Meade, Maryland
012	110788	Malik/Harrison	Memo	Request for Technical Review of the Clean Room Systems at the National Security Agency's (NSA's) Special Process Laboratories, Ft. Meade, Maryland
013	110788	Naegele/Harrison	Letter	Request for Technical Review of the Clean Room Systems at the National Security Agency's (NSA's) Special Process Laboratories, Ft. Meade, Maryland
014	110788	Rapa/Harrison	Letter	Request for Technical Review of the Clean Room Systems at the National Security Agency's (NSA's) Special Process Laboratories, Ft. Meade, Maryland
015	111188	Peters/Harrison	Memo	Concurrence Review of Draft ANL Report on the Deionized-Water and Wastewater-Treatment Systems at the Special Process Laboratories, Ft. Meade, Maryland
016	111188	Collentro/Harrison	Letter	Concurrence Review of Draft ANL Report on the Deionized-Water and Wastewater-Treatment Systems at the Special Process Laboratories, Ft. Meade, Maryland
017	111188	Midkiff/Harrison	Letter	Concurrence Review of Draft ANL Report on the Deionized-Water and Wastewater-Treatment Systems at the Special Process Laboratories, Ft. Meade, Maryland
018	111188	Frost/Harrison	Letter	Concurrence Review of Draft ANL Report on the Deionized-Water and Wastewater-Treatment Systems at the Special Process Laboratories, Ft. Meade, Maryland
019	111188	Harrison/Harrison	Memo	Concurrence Review of Draft ANL Report on the Deionized-Water and Wastewater-Treatment Systems at the Special Process Laboratories, Ft. Meade, Maryland
020	112988	Naegele/Harrison	Letter	Concurrence Review of Draft ANL Report on the Clean Room Systems at the Special Process Laboratories, Ft. Meade, Maryland
021	112988	Rapa/Harrison	Letter	Concurrence Review of Draft ANL Report on the Clean Room Systems at the Special Process Laboratories, Ft. Meade, Maryland

13/14

**INDEX FOR CORRESPONDENCE FILE 1.1.4 (COEO)
Documents Outgoing to Other Than USACE/BD**

COEO-	Dated/Rcvd	To/From	Description	Subject
022	112988	Harrison/Harrison	Memo	Concurrence Review of Draft ANL Report on the Clean Room Systems at the Special Process Laboratories, Ft. Meade, Maryland
023	112988	Malik/Harrison	Memo	Concurrence Review of Draft ANL Report on the Clean Room Systems at the Special Process Laboratories, Ft. Meade, Maryland
024	112988	Stevens/Harrison	Memo	Concurrence Review of Draft ANL Report on the Clean Room Systems at the Special Process Laboratories, Ft. Meade, Maryland
025	020989	Nolan/Harrison	Letter	Request for Technical Review of the High-Purity-Gas Piping System at the National Security Agency's Special Process Laboratories (SPL), Ft. Meade, Maryland (copy of COEI-017 attached)
026	020989	Stevens/Harrison	Memo	Request for Technical Review of the High-Purity-Gas Piping System at the National Security Agency's Special Process Laboratories (SPL), Ft. Meade, Maryland (copy of COEI-017 attached)
027	020989	Engelkemeir/Harrison	Memo	Request for Technical Review of the High-Purity-Gas Piping System at the National Security Agency's Special Process Laboratories (SPL), Ft. Meade, Maryland (copy of COEI-017 attached)
028	020989	Harrison/Harrison	Memo	Request for Technical Review of the High-Purity-Gas Piping System at the National Security Agency's Special Process Laboratories (SPL), Ft. Meade, Maryland (copy of COEI-017 attached)
029	021789	Engelkemeir/Stevens	Memo	High-PurityProcess Piping Tests -- Recent Information
030	021789	Malik/Stevens	Memo	High-PurityProcess Piping Tests -- Recent Information
031	021789	Stoy/Stevens	Letter	High-PurityProcess Piping Tests -- Recent Information
032	021789	Nolan/Stevens	Letter	Performance Review of the High-Purity-Gas Piping System at the National Security Agency's Special Process Laboratories, Ft. Meade, Maryland (background information); and High-Purity Process Piping Tests -- Recent Information (Specifications attached)
033	031389	File/Harrison	Memo	Disposition of March 9, 1989, Letter Report to P. Merski

1.2 USACE/BD-Sponsored Formal Reviews

**INDEX OF DOCUMENTS PERTAINING TO THE USACE/BD-SPONSORED FORMAL
PERFORMANCE REVIEW OF THE CLEAN ROOM SYSTEMS AT THE SPECIAL PROCESS
LABORATORIES BUILDING, FT. MEADE, MARYLAND
1.2.1**

FILE-	Dated/Rcvd	To/From	Description	Subject
COEO-008	102888	Stevens/Harrison	Memo	Session Chairmanship for Peer Review of the Clean Room Systems Located in the NSA Building at Ft. Meade, Maryland
COEI-004	110388	Harrison/Rapa	Fax trans	Resume of Mr. Angelo Rapa, Advisory Engineer, of IBM General Technology Division
COECO-004	110388	Magnifico/Harrison	Letter	NSA Area Office Concurrence with ANL's Selection of Panelists or Review of Performance of Clean Room Systems in the Special Process Laboratories
COEI-005	110488	File/Harrison	Memo	Meeting to Scope Technical Review of Special Process Laboratories Clean Rooms, Ft. Meade, Maryland
COEO-010	110788	Stevens/Harrison	Memo	Request for Technical Review of the Clean Room Systems at the National Security Agency's (NSA's) Special Process Laboratories, Ft. Meade, Maryland
COEO-011	110788	Harrison/Harrison	Memo	Request for Technical Review of the Clean Room Systems at the National Security Agency's (NSA's) Special Process Laboratories, Ft. Meade, Maryland
COEO-012	110788	Malik/Harrison	Memo	Request for Technical Review of the Clean Room Systems at the National Security Agency's (NSA's) Special Process Laboratories, Ft. Meade, Maryland
COEO-013	110788	Naegele/Harrison	Letter	Request for Technical Review of the Clean Room Systems at the National Security Agency's (NSA's) Special Process Laboratories, Ft. Meade, Maryland
COEO-014	110788	Rapa/Harrison	Letter	Request for Technical Review of the Clean Room Systems at the National Security Agency's (NSA's) Special Process Laboratories, Ft. Meade, Maryland
COEO-020	112988	Naegele/Harrison	Letter	Concurrence Review of Draft ANL Report on the Clean Room Systems at the Special Process Laboratories, Ft. Meade, Maryland
COEO-021	112988	Rapa/Harrison	Letter	Concurrence Review of Draft ANL Report on the Clean Room Systems at the Special Process Laboratories, Ft. Meade, Maryland
COEO-022	112988	Harrison/Harrison	Memo	Concurrence Review of Draft ANL Report on the Clean Room Systems at the Special Process Laboratories, Ft. Meade, Maryland

**INDEX OF DOCUMENTS PERTAINING TO THE USACE/BD-SPONSORED FORMAL
PERFORMANCE REVIEW OF THE CLEAN ROOM SYSTEMS AT THE SPECIAL PROCESS
LABORATORIES BUILDING, FT. MEADE, MARYLAND
1.2.1**

FILE-	Dated/Rcvd	To/From	Description	Subject
COEO-023	112988	Malik/Harrison	Memo	Concurrence Review of Draft ANL Report on the Clean Room Systems at the Special Process Laboratories, Ft. Meade, Maryland
COEO-024	112988	Stevens/Harrison	Memo	Concurrence Review of Draft ANL Report on the Clean Room Systems at the Special Process Laboratories, Ft. Meade, Maryland
COECO-007	112988	Magnifico/Harrison	Letter	Draft ANL Review Report on the Clean Room Systems at the Special Process Laboratories, Ft. Meade, Maryland
COEI-019	120988	File	Signature Sheet	Concurrence Agreement for Performance Review of the Clean Room Systems at the Special Process Laboratories, Fort. Meade, Maryland
COECI-003	121288	Harrison/Merski	Letter	Integrated Clean Room Systems Review Panelists, (TP 13040), Special Process Laboratories, National Security Agency, Ft. Meade, Maryland (Concurrence with ANL Selection of Panelists)
COEI-018	121388	File	Signature Sheet	Concurrence Agreement for Performance Review of the Clean Room Systems at the Special Process Laboratories, Fort. Meade, Maryland
COEI-020	121488	File	Signature Sheet	Concurrence Agreement for Performance Review of the Clean Room Systems at the Special Process Laboratories, Fort. Meade, Maryland
COEI-021	121488	File	Signature Sheet	Concurrence Agreement for Performance Review of the Clean Room Systems at the Special Process Laboratories, Fort. Meade, Maryland
COEI-008	121688	File/Stevens	Notes	Notes on the 11/16/88 Technical Review of the Clean Room Systems at the National Security Agency's Special Process Laboratories, Ft. Meade, Maryland
COEI-009	121688	File/Naegele	Notes	Notes on the 11/16/88 Technical Review of the Clean Room Systems at the National Security Agency's Special Process Laboratories, Ft. Meade, Maryland
COEI-010	121688	File/Rapa	Notes	Notes on the 11/16/88 Technical Review of the Clean Room Systems at the National Security Agency's Special Process Laboratories, Ft. Meade, Maryland

**INDEX OF DOCUMENTS PERTAINING TO THE USACE/BD-SPONSORED FORMAL
PERFORMANCE REVIEW OF THE CLEAN ROOM SYSTEMS AT THE SPECIAL PROCESS
LABORATORIES BUILDING, FT. MEADE, MARYLAND
1.2.1**

FILE-	Dated/Rcvd	To/From	Description	Subject
COEI-022	121988	File	Signature Sheet	Composite Sheet: Concurrence Agreement for Performance Review of the Clean Room Systems at the Special Process Laboratory Building, Ft. Meade, Maryland
COECO-008	011189	Merski/Harrison	Letter	Final Report for Argonne-Conducted Performance Review of the Clean Room Systems at the Special Process Laboratory Building, Ft. Meade, Maryland
COEI-023	012089	File/Harrison	Memo	USACE-Requested Revisions of Final Report on Clean Room Performance Review Originally Submitted to USACE's Walter P. Merski on January 11, 1989
COECO-009	013189	Merski/Harrison	Letter	Revised Final ANL Report on Performance of the Clean Room Systems for the Special Process Laboratories, Ft. Meade, Maryland
COECO-010	020389	Merski/Harrison	Letter	Revised Final ANL Report on Performance of the Clean Room Systems for the Special Process Laboratories, Ft. Meade, Maryland

**INDEX OF DOCUMENTS PERTAINING TO THE USACE/BD-SPONSORED FORMAL
PERFORMANCE REVIEW OF THE DEIONIZED-WATER AND WASTEWATER-TREATMENT
SYSTEMS AT THE SPECIAL PROCESS LABORATORIES, FT. MEADE, MARYLAND
1.2.2**

FILE-	Dated/Rcvd	To/From	Description	Subject
COEI-006	101188	File/Harrison	Memo	Initial Meeting to Scope Performance Review of the Deionization and Wastewater-Treatment Systems, Special Process Laboratory, Ft. Meade, Maryland
COEO-001	101288	Peters/Harrison	Memo	Session Chairmanship for Peer Review of the Deionization and Wastewater-Treatment Systems Located in the NSA Building at Ft. Meade, Maryland
COEI-025	101488	Harrison/Peters	Memo	Trip Itineraries for Peer Review Committee (Deionization and Wastewater-Treatment Systems at Ft. Meade, Maryland)
COEO-002	101488	Frost/Harrison	Letter	Request for Performance Review of the Deionization and Wastewater-Treatment Systems at the National Security Agency's (NSA's) Special Process Facility, Ft. Meade, Maryland
COEO-003	101488	Midkiff/Harrison	Letter	Request for Performance Review of the Deionization and Wastewater-Treatment Systems at the National Security Agency's (NSA's) Special Process Facility, Ft. Meade, Maryland
COEO-004	101488	Hooks/Harrison	Letter	Request for Performance Review of the Deionization and Wastewater-Treatment Systems at the National Security Agency's (NSA's) Special Process Facility, Ft. Meade, Maryland
COEO-005	101488	Peters/Harrison	Memo	Request for Performance Review of the Deionization and Wastewater-Treatment Systems at the National Security Agency's (NSA's) Special Process Facility, Ft. Meade, Maryland
COECO-002	101488	Magnifico/Harrison	Letter	NSA Area Office Concurrence with ANL's Selection of Panelists for Review of Performance of Deionization and Wastewater-Treatment Systems
COECO-003	101988	Magnifico/Harrison	Letter	NSA Area Office Concurrence with ANL's Selection of Mr. William Collentro as a panelist for Review of Performance of Deionization and Wastewater-Treatment Systems
COEO-007	101488	Harrison/Harrison	Letter	Request for Performance Review of the Deionization and Wastewater-Treatment Systems at the National Security Agency's (NSA's) Special Process Facility, Ft. Meade, Maryland
COEO-006	101988	Collentro/Harrison	Letter	Request for Performance Review of the Deionization and Wastewater-Treatment Systems at the National Security Agency's (NSA's) Special Process Facility, Ft. Meade, Maryland

**INDEX OF DOCUMENTS PERTAINING TO THE USACE/BD-SPONSORED FORMAL
PERFORMANCE REVIEW OF THE DEIONIZED-WATER AND WASTEWATER-TREATMENT
SYSTEMS AT THE SPECIAL PROCESS LABORATORIES, FT. MEADE, MARYLAND
1.2.2**

FILE-	Dated/Rcvd	To/From	Description	Subject
COEI-001	102688	Harrison,Peters/Frost	Notes	Comments on Performance Review of the Deionization and Wastewater-Treatment Systems at the NSA's Special Process Facility, Ft. Meade, Maryland (Oct. 21-22, 1988)
COEI-002	102688	Harrison,Peters/Frost	Notes	Comments on Performance Review of the Deionization and Wastewater-Treatment Systems at the NSA's Special Process Facility, Ft. Meade, Maryland (Oct. 21-22, 1988)
COEI-003	102688	Harrison,Peters /Collentro	Notes	Comments on Performance Review of the Deionization and Wastewater-Treatment Systems at the NSA's Special Process Facility, Ft. Meade, Maryland (Oct. 21-22, 1988)
COEI-016	103188	Harrison/Peters	Notes	Comments on Performance Review of the Deionization and Wastewater-Treatment Systems at the NSA's Special Process Facility, Ft. Meade, Maryland (Oct. 21-22, 1988)
COEO-009	110288	Peters/Harrison	Memo	Review Comments on the NSA Special Process Laboratories Deionization and Wastewater-Treatment Systems, Ft. Meade, Maryland, October 20/21, 1988
COEO-015	111188	Peters/Harrison	Memo	Concurrence Review of Draft ANL Report on the Deionized-Water and Wastewater-Treatment Systems at the Special Process Laboratories, Ft. Meade, Maryland
COEO-016	111188	Collentro/Harrison	Letter	Concurrence Review of Draft ANL Report on the Deionized-Water and Wastewater-Treatment Systems at the Special Process Laboratories, Ft. Meade, Maryland
COEO-017	111188	Midkiff/Harrison	Letter	Concurrence Review of Draft ANL Report on the Deionized-Water and Wastewater-Treatment Systems at the Special Process Laboratories, Ft. Meade, Maryland
COEO-018	111188	Frost/Harrison	Letter	Concurrence Review of Draft ANL Report on the Deionized-Water and Wastewater-Treatment Systems at the Special Process Laboratories, Ft. Meade, Maryland
COEO-019	111188	Harrison/Harrison	Memo	Concurrence Review of Draft ANL Report on the Deionized-Water and Wastewater-Treatment Systems at the Special Process Laboratories, Ft. Meade, Maryland

**INDEX OF DOCUMENTS PERTAINING TO THE USACE/BD-SPONSORED FORMAL
PERFORMANCE REVIEW OF THE DEIONIZED-WATER AND WASTEWATER-TREATMENT
SYSTEMS AT THE SPECIAL PROCESS LABORATORIES, FT. MEADE, MARYLAND
1.2.2**

FILE-	Dated/Rcvd	To/From	Description	Subject
COECO-005	111188	Magnifico/Harrison	Letter	Draft ANL Review Report on the Deionized-Water and Wastewater-Treatment Systems at the Special Process Laboratories, Ft. Meade, Maryland
COEI-007	120188	File/Harrison	Memo	USACE Response to ANL's Draft Performance Review Report on the Deionized-Water and Wastewater-Treatment System at the Special Process Laboratories, Ft. Meade, Maryland
COECO-006	120188	Magnifico/Harrison	Letter	Final ANL Review Report on the Deionized-Water and Wastewater-Treatment Systems at the Special Process Laboratories, Ft. Meade, Maryland
COECI-002	120888	Harrison/Merski	Letter	Deionized-Water and Industrial Waste Treatment Systems Review Panelists (TP's 11240, 11390) SPL, NSA, Ft. Meade, Maryland (Concurrence with ANL Selection of Panelists)
COEI-011	120988	File	Signature Sheet	Concurrence Agreement for Review of ANL Draft Report of Technical Review of the Deionization and Wastewater-Treatment Systems at the National Security Agency's Special Process Laboratories, Ft. Meade, Maryland
COEI-012	120988	File	Signature Sheet	Concurrence Agreement for Review of ANL Draft Report of Technical Review of the Deionization and Wastewater-Treatment Systems at the National Security Agency's Special Process Laboratories, Ft. Meade, Maryland
COEI-013	120988	File	Signature Sheet	Concurrence Agreement for Review of ANL Draft Report of Technical Review of the Deionization and Wastewater-Treatment Systems at the National Security Agency's Special Process Laboratories, Ft. Meade, Maryland
COEI-014	120988	File	Signature Sheet	Concurrence Agreement for Review of ANL Draft Report of Technical Review of the Deionization and Wastewater-Treatment Systems at the National Security Agency's Special Process Laboratories, Ft. Meade, Maryland
COEI-015	120988	File	Signature Sheet	Concurrence Agreement for Review of ANL Draft Report of Technical Review of the Deionization and Wastewater-Treatment Systems at the National Security Agency's Special Process Laboratories, Ft. Meade, Maryland

**INDEX OF DOCUMENTS PERTAINING TO THE USACE/BD-SPONSORED SPECIAL ON-SITE
REVIEW OF THE HIGH-PURITY-GAS PIPING SYSTEMS, SPL BUILDING,
FT. MEADE, MARYLAND
1.2.3**

FILE-	Dated/Rcvd	To/From	Description	Subject
COECO-001	100488	Magnifico/Harrison	Letter	NSA Area Office Concurrence with ANL's Selection of Panelists for Review of Performance of High-Purity-Gas Piping Systems
COEI-017	100788	File/Harrison	Memo	Performance Review of the High-Purity-Gas Piping System at NSA's Special Process Laboratories, Ft. Meade, Maryland
COECI-001	112988	Harrison/Merski	Letter	Special Gas and Liquid Distribution Systems Review Panelists, SPL, NSA, Ft. Meade, Maryland (Concurrence with ANL Selection of Panelists)
COEI-024	020989	File/Harrison	Memo	Initial Meeting to Scope Phase I Review (for USACE)
COEO-025	020989	Nolen/Harrison	Letter	Request for Technical Review of the High-Purity-Gas Piping System at the National Security Agency's Special Process Laboratories
COEO-026	020989	Stevens/Harrison	Memo	Request for Technical Review of the High-Purity-Gas Piping System at the National Security Agency's Special Process Laboratories
COEO-027	020989	Engelkemeir/Harrison	Memo	Request for Technical Review of the High-Purity-Gas Piping System at the National Security Agency's Special Process Laboratories
COEO-028	020989	Harrison/Harrison	Memo	Request for Technical Review of the High-Purity-Gas Piping System at the National Security Agency's Special Process Laboratories
COEO-029	021789	Engelkemeir/Stevens	Memo	High-Purity Process Piping Tests -- Recent Information
COEO-030	021789	Malik/Stevens	Memo	High-Purity Process Piping Tests -- Recent Information
COEO-031	021789	Stoy/Stevens	Letter	High-Purity Process Piping Tests -- Recent Information

*USACE/BD-Sponsored Formal Peer Review -
High-Purity-Gas Piping Systems*

**INDEX OF DOCUMENTS PERTAINING TO THE USACE/BD-SPONSORED SPECIAL ON-SITE
REVIEW OF THE HIGH-PURITY-GAS PIPING SYSTEMS, SPL BUILDING,
FT. MEADE, MARYLAND
1.2.3**

FILE-	Dated/Rcvd	To/From	Description	Subject
COEO-032	021789	Nolen/Stevens	Letter	Performance Review of the High-Purity-Gas Piping System at the National Security Agency's Special Process Laboratories, Ft. Meade, Maryland (background information); and High-Purity Process Piping Tests -- Recent Information
COEI-026	030189	File/Harrison	Letter	Signature Authorization for P. Kulzer
COECO-011	031089	Merski/Harrison	Letter	Results of Argonne's On-Site Review of the High-Purity-Gas Piping System at the Special Process Laboratories Building, Ft. Meade, MD
COEI-027	031589	File/Harrison	Letter	Signature Authorization for L. Narug
COECO-012	032989	Merski/Harrison	Letter	Final Results of Argonne's On-Site Review of the High-Purity-Gas Piping System at the Special Process Laboratories Building, Ft. Meade, MD

1.3 Index of Documents Pertaining to National Security Agency (NSA)-Sponsored Formal and Informal Reviews

INDEX FOR CORRESPONDENCE FILE 1.3.1 (NSAIN)
Documents Incoming to ANL from NSA

NSAIN-	Dated/Rcvd	To/From	Description	Subject
001	022789	Harrison/Soule	Letter	Review of panellists for the performance reviews of Phase II enhancements to the Special Process Laboratories, Ft. Meade, MD
002	042089	File/NSA	Report	National Semiconductor Construction Schedule (4-4-89)
003	052289	File/NSA	Specifications	National Semiconductor - Ft. Meade (7 total)
004	080989	Kokalis/Quinlivan	Letter	Lepco's response to deficiencies defined by ANL
			Attachment	Minutes of NSA/NSC Construction Meeting: Date/Time: August 8, 1989/1:00 pm Ft. Meade, MD
		Quinlivan/Kelleho	Attachment	RE; Ft. Meade MEBES Facility
005	081489	Kokalis/Quinlivan	Letter	Marshall Contractors defining Duct Testing Requirements
		Jackman/Jansen	Attachment	RE: Testing of Ductwork
			Attachment	AABC Technical Papers - Duct Leakage and Air Balancing (Publication)
			Attachment	United McGill Leakage Test Kits (Product Literature)
006	090789	Shepard/Cunningham	Memo	Review of ANL's Specifications on the Multi-Media Prefilter
007	091489	Kokalis/Cunningham	Letter	High-Purity Piping Services
008	091889	Kokalis/Cunningham	Letter	D.I. Water-Treatment System Enhancements
009	091889	Kokalis/Cunningham	Letter	Sprinkler System Calculation Review

<i>Closed February 1990. Continuation in NSAIN Log "A"</i>
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INDEX FOR CORRESPONDENCE FILE 1.3.2 (NSAIN"A")
Documents Incoming to ANL from NSA

NSAIN-	Dated/Rcvd	To/From	Description	Subject
010	010390	File	Minutes	Contractor Coordinator Meeting, 12 December 1989
011	0103890	File	Minutes	Contractor Coordinator Meeting, 6 December 1989 (Revised)
012	010390	File	Minutes	Contractor Coordinator Meeting, 6 December 1989
013	011590	File	Minutes	Contractor Coordination Meeting, 19 December 1989
014	011590	File	Minutes	Contractor Coordination Meeting, 03 January 1990
015	011590	File	Minutes	Contractor Coordination Meeting, 9 January 1990
016	011690/012990	File	Minutes	Contractor Coordination Meeting, 16 January 1990
017	020690/022390	File	Minutes	Contractor Coordination Meeting, 6 February 1990

**INDEX FOR CORRESPONDENCE FILE 1.3.3 (NSAIO)
Documents Incoming to ANL from Other Than NSA**

NSAIO-	Dated/Rcvd	To/From	Description	Subject
001	020389	File/Harrison	Memo	Scoping the Technical Review
002	020189	NSA File/Harrison	Memo	Signature Authorization for P. Kulzer
003	012589	Harrison/Collentro	Letter	Comments Regarding Facility Enhancements at the Special Process Laboratories, Ft. Meade, MD - Deionized-Water Purification System
004	030189	NSA File/Harrison	Memo	Signature Authorization for L. Narug
005	032889	Harrison & Stevens / Engelkemeir	Memo	Test Data for Residual Gases in High-Purity Piping System, SPL, Ft. Meade, MD
006	041789	File/Slack Associates	Report	Preliminary Data From Slack Associates on Leak Check of High-Purity-Gas Pipe System
007	041789	File/Rapa	Report	NSA Special Processing Lab - Design Comments
008	111090	File/Miller	Memo	"NSAIO-008" removed from file
009	051289/052289	Book	Submittal	Temperature Control Submittal for Ft. Meade
010	053189	File/Harrison	Telecon Record	Conversation between M. Musko & L. Soule on Persons Attending Weekly Construction Meetings
011	060789	File/ANL-NSA Personnel	Addendum	Addendum 1 to Package 5
012	062089	Harrison/Shepard	Fax	Arch./Structural Requirements
013	070789	File/Harrison	Memo	Meeting of July 7, 1989, between ANL's W. Harrison, L. Shepard, M. Musko, and N. Malik and NSA's D. Kokalis
014	072789	Harrison/Collentro	Letter	Specifications for Multi-Media Filters - United States Department of Defense-Fort George G. Meade, MD
015	072889	File/Gerbig	Report	Clean Room Construction at SPL, Ft. Meade, Progress Review Trip
016	080289	File	Minutes	NSA/NSC Construction Meeting: Date/Time: August 1, 1989 / 1:00 pm Place: NSA SPL Trailer, Ft. Meade, MD

**INDEX FOR CORRESPONDENCE FILE 1.3.3 (NSAIO)
Documents Incoming to ANL from Other Than NSA**

NSAIO-	Dated/Rcvd	To/From	Description	Subject
017	080489	Harrison/Collentro	Fax	Specification For Enhancement to Pretreatment Equipment At Special Process Laboratory - Ft. Meade, MD
018	080489	Harrison/Shepard	Memo	Monthly Report For July 1989, SPL/NSA Fort Meade, MD
019	081689	Maley/Malik	Memo	NaOH Tank Leak Test
020	081789	Harrison/Shepard	Memo	Specification Test Schedule and SPL Construction Schedule
021	090889	File	Minutes	NSA/NSC Construction Meeting: Date/Time: September 5, 1989 / 1:00 pm Place: NSA SPL Trailer, Ft. Meade, MD
022	091389	File	Minutes	NSA/NSC Construction Meeting: Date/Time: September 12, 1989 / 1:00 pm Place: NSA SPL Trailer, Ft. Meade, MD
023	091489	Hays/Cunningham	Letter	Review of Proposed City Water Booster System
024	092089	File	Minutes	NSA/NSC Construction Meeting: Date/Time: September 19, 1989 / 1:00 pm Place: NSA SPL Trailer, Ft. Meade, MD
025	091989	File	Minutes	Contractor Coordinator Meeting
026	092589	File	Schedule	DI Water System Schedule
027	092589	File	Schedule	SPL Facility and Equipment Schedule
028	092789	File	Minutes	NSA/NSC Construction Meeting: Date/Time: September 26, 1989 / 1:00 pm Place: NSA SPL Trailer, Ft. Meade, MD
029	040789	/Shepard	Memo	LEPCO Document Review, SPL/NSA, Ft. Meade, MD
030	061589	Maley/Frederick	Letter	First effort at producing a specification for the procurement of multi-media filters for addition to the SPL high-purity water-treatment system
			Enclosure	Procurement Specification / Multi-Media Filter Addition
031	092689/120989	File	Minutes	Contractor Coordinator Meeting 26 September 1989
032	100289/120989	File	Minutes	Contractor Coordinator Meeting 2 October 1989

**INDEX FOR CORRESPONDENCE FILE 1.3.3 (NSAIO)
Documents Incoming to ANL from Other Than NSA**

NSAIO-	Dated/Rcvd	To/From	Description	Subject
033	120989	File	Minutes	NSA/NSC Construction Meeting: Date/Time: October 2, 1989 / 1:00 pm Place: NSA SPL Trailer, Ft. Meade, MD
034	101689/120989	File	Minutes	NSA/NSC Construction Meeting: Date/Time: October 10, 1989 / 1:00 pm Place: NSA SPL Trailer, Ft. Meade, MD
035	120989	File	Minutes	NSA/NSC Construction Meeting: Date/Time: October 17, 1989 / 1:00 pm Place: NSA SPL Trailer, Ft. Meade, MD
036	120989	QA File/Harrison	Notes	101989 Meeting with D. Kokalis / 101989 Meeting with L. Shepard, M. Musko, and T. Cunningham
			Enclosure	SPL Transfer Statement of Work 11 January 88
			Enclosure	SPL 1.2 Micron Acquisition Design Statement of Work, 10 June 88
			Enclosure	SPL Acquisition Purchase Description, 4 August 1988
037	120989	File	Minutes	NSA/NSC Construction Meeting: Date/Time: October 24, 1989 / 1:00 pm Place: NSA SPL Trailer, Ft. Meade, MD
038	120989	File	Minutes	NSA/NSC Construction Meeting: Date/Time: October 30, 1989 / 1:00 pm Place: NSA SPL Trailer, Ft. Meade, MD
039	120989	File	Minutes	NSA/NSC Construction Meeting: Date/Time: November 7, 1989 / 1:00 pm Place: NSA SPL Trailer, Ft. Meade, MD
040	120989	File	Point Paper	Walk through, 9 Nov. 89
041	120989	QA File/Harrison	Memo	Meeting with R Group's David Kokalis of November 16, 1989
		Kokalis/Shepard	Memo Attachment	Deficiency List 15Nov89 Same as above
042	112789/120989	File	Minutes	NSA/NSC Construction Meeting: Date/Time: November 21, 1989 / 1:00 pm Place: NSA SPL Trailer, Ft. Meade, MD
043	121089	File	Minutes	NSA/NSC Construction Meeting: Date/Time: November 28, 1989 / 1:00 pm Place: NSA SPL Trailer, Ft. Meade, MD
044	121089	File	Minutes	NSA/NSC Construction Meeting: Date/Time: December 5, 1989 / 1:00 pm Place: NSA SPL Trailer, Ft. Meade, MD

Closed February 1990. Continuation in NSAIO Log "A"

INDEX FOR CORRESPONDENCE FILE 1.3.4 (NSAIO"A")
Documents Incoming to ANL from Other Than NSA

NSAIO-	Dated/Rcvd	To/From	Description	Subject
045	121189/011590	List/Nyman	Minutes	Contractors Meeting Summary - 6 December 1989
046	011890/021290	Shepard/Smith	Memo Enclosure	Sprinkler System Serving the SPL Building Outline of problem with the SPL sprinkler system..."Main line water pressure has dropped below value required to provide adequate sprinkler coverage to the SPL Facility. Argonne to review the situation and recommend corrective action required."
047	051690/052990	Shepard/Cunningham	Fax Trans	T. Cunningham's response to project review comments made by Matt Walch (L521) to Jerry Pogue 5-14-90 (attached)

QA COMMUNICATIONS RECORD 1.3.5 (NSAON)
Documents Outgoing to NSA

NSAON-	Dated/Rcvd	To/From	Description	Subject
001	012589	Hoehn/Harrison/ RWP	Letter	Sense-of-the-Meeting Report for the Tiger Team's Review of the SPL's Deionized-Water System, January 18/19, 1989
			Attachment A	ANL's Original Performance Review Report on the Deionized-Water and Wastewater-Treatment Systems
			Attachment B	Process Flow Diagram of Enhancements Agreed to by NSC, NSA and ANL
			Attachment C	Description of Enhancements Agreed to by NSC, NSA and ANL
			Attachment D	ANL Commentary on Minimal Enhancements Required to Produce Semiconductor Grade Water and Expected Performance of Proposed Enhancements
			Enclosure	System Performance Review of the Deionized-Water and Wastewater-Treatment Systems at the Special Process Laboratories, Ft. Meade, MD
002	020289	Soule/Harrison	Letter	NSA Area Office Concurrence with ANL's Selection of Panelists for Performance Reviews of Phase II Enhancements to the Special Process Laboratories Building
003	022389	Soule/Harrison	Letter	Argonne's Interim Review Report On National Semiconductor Corporation's Enhancements to the Clean Room Systems at the Special Process Laboratories
			Enclosure	Internal Document / Interim Review of National Semiconductor Corp's Enhancements to the Clean Room System at SPL, Ft. Meade
004	061689	Kokalis/Harrison	Letter	Informal Review of NSC's "Package 5" Spec
			Attachment	Informal Review of NSC's Package 5 "Environmental Protection Systems"
005	070789	Kokalis/Shepard	Memo	Job Status, SPL/NSA, Ft. Meade, MD: Deficiencies in the construction of the second phase for Area E
006	070789	Soule/Shepard	Memo	Marshall Group Schedule Dated May 30, 1989 NSA/R105, SPL/NSA Ft. Meade, MD: Progress of Marshall Group's portion of SPL construction

QA COMMUNICATIONS RECORD 1.3.5 (NSAON)
Documents Outgoing to NSA

NSAON-	Dated/Rcvd	To/From	Description	Subject
007	071789	Kokalis/Harrison	Letter	Final Version of ANL's Informal Review of National Semiconductor Corporation's Package 5 "Environmental Protection Systems"
			Attachment	Same as above
008	072189	Kokalis/Shepard	Memo	Hydrogen, Nitrogen and Oxygen, Concrete/Masonry Work, SPL/NSA Ft. Meade, MD
009	072689	QA File/Harrison	Memo	Signature Authority for Diana Gierich
010	073189	Kokalis/Harrison	Letter	Informal Argonne Review of Clean Room Construction at the SPL, July 20, 1989
			Attachment	Clean Room Construction at SPL, Progress Review Trip, Gerbig
011	073189	Kokalis/Harrison	Letter	Informal Review of ION Exchange Associates, Inc., Specifications for Multi-Media Filters
			Attachment	Technical Review of Specifications for Multimedia Filters for the SPL Building's Deionized-Water System
012	080289	Kokalis/Shepard	Memo	Integrated Cleanroom Systems Protocol Review, SPL/NSA Ft. Meade, MD
			Specifications	Section 13040, Integrated Clean Room Systems
013	080389	Kokalis/Harrison	Letter	ANL's Specifications for a Multimedia Prefilter Subsystem for the SPL's Deionized-Water System
			Enclosure	Specifications for Enhancements Equipment at the SPL, Ft. Meade, MD
014	080389	Kokalis/Shepard	Memo	Owner-Supplied Equipment for MEBES Area (LEPCO Work Area) SPL/NSA Ft. Meade, MD
015	080789	Kokalis/Harrison	Letter	Summary Report for Work Conducted by ANL During July, 1989
016	080789	Kokalis/Shepard	Memo	Preliminary Punch List For LEPCO, SPL/NSA Ft. Meade, MD
			Attachment	Same as above
017	081089	Kokalis/Shepard	Memo	Specification Test Schedule SPL/NSA Ft. Meade, MD
			Attachment	Test Requirements for SPL Enhancements
018	081089	Kokalis/Shepard	Memo	Painting Requirements for SPL Enhancements, SPL/NSA Ft. Meade, MD

QA COMMUNICATIONS RECORD 1.3.5 (NSAON)
Documents Outgoing to NSA

NSAON-	Dated/Rcvd	To/From	Description	Subject
			Attachment	Selected excerpts from painting specifications
019	081189	Kokalis/Shepard	Note	The basis of his opinion regarding "cutting the grossly oversize holes in the structural steel and supports taken from..."
020	081189	Kokalis/Shepard	Memo	NSC Response to Deficiency Items Regarding LEPCO Installation, SPL/NSA Ft. Meade, MD
021	081689	Kokalis/Musko	Memo	NSC Construction Schedule Dated August 7, 1989
022	081889	Kokalis/Shepard	Memo	NSC Proposed Duct Test, SPL/NSA Ft. Meade, MD
		Kokalis/Quinlivan	Memo	Ductwork Testing
		Jackman/Jansen	Attachment Publication	Testing of Ductwork AABC Technical Papers - Duct Leakage and Air Balancing
			Attachment	McGill Product Literature: Leakage Test Kits
023	082189	Kokalis/Shepard	Memo	Marshall Submittal Register, SPL/NSA Ft. Meade, MD
		Kokalis/Shepard	Memo	LEPCO Clean Room Certification, SPL/NSA Ft. Meade, MD
024	082289	Kokalis/Shepard	Memo	Updated Preliminary Punch List for LEPCO, SPL/NSA Ft. Meade, MD
			Attachment	Same as above
025	082389	Kokalis/Musko	Memo	Penetration of below-grade exterior walls
026	082489	Kokalis/Shepard	Note	Revised set of calculations by Grinnel of the Sprinkler System (8-15-89) / Disagreement with
027	083089	Kokalis/Shepard	Memo	UL-E Plenum Area, SPL/NSA Ft. Meade, MD
028	083189	Kokalis/Harrison	Letter	Final Version of ANL's "Informal Review of Problems with Lime Addition System and Acid/Caustic Storage Tank Systems" in the SPL Building
			Enclosure	Informal Review of Problems with the SPL Building's Lime-Addition System and Acid/Caustic Storage Tank System
029	083189	Kokalis/Shepard	Memo	HEPA Filter Bench Tests NSA/SPL Ft. Meade, MD

QA COMMUNICATIONS RECORD 1.3.5 (NSAON)
Documents Outgoing to NSA

NSAON-	Dated/Rcvd	To/From	Description	Subject
030	090589	Kokalis/Shepard	Memo Specification	Clean Room Certification, NSA/SPL Ft. Meade, MD Section 15050 Clean Room Construction
031	090689	Kokalis/Musko	Memo	Interrupting Rating of Circuit Breakers (Item 201)
032	090789	Kokalis/Shepard	Memo	Clean Room Corridors, NSA/SPL Ft. Meade, MD
033	091189	Kokalis/Shepard	Memo	High Pressure Duct Testing, SPL/NSA Ft. Meade, MD
034	091889	Kokalis/Shepard	Memo	Punchlist for Area A, North End, Floor to Ceiling and Chases
035	092089	Kokalis/Shepard	Memo	Balance and Certification of Cleanrooms
036	092189	Kokalis/Shepard	Note	Manufacturers Recommendation on Mipolan Floor Cleaning
037	100589/120989	Kokalis/Cunningham	Letter	Inspection, Examination, Testing and Certification of High-Purity Piping Systems (Dated 5Oct89)
038	101689/120989	Kokalis/Cunningham	Letter	Meeting of Oct. 11 to discuss D. I. Water System Filtration (Dated 11Oct89, Rcvd 101689)
039	101789/120989	Kokalis/Cunningham	Letter Enclosure	Leak Testing Procedure for Inert Gas and Coaxial Tubing (Dated 17Oct89) Leak Testing Procedure
040	101789/120989	Kokalis/Cunningham	Letter	Testing of High-Purity Piping Systems (Dated 17Oct89)
041	102689/120989	Kokalis/Shepard	Memo	High Purity Pipe Test Report for Existing Piping (Dated 26Oct89)
042	101889/120989	Kokalis/Cunningham	Letter	Testing of Special Gas Distribution System (dated 18Oct89)
043	101789/120989	Kokalis/Cunningham	Letter	Installation of Ultrafilter and Mixed Beds (Dated 17Oct89)
044	120989	Kokalis/Cunningham	Letter	Sprinkler Calculations (Dated 31Oct89)

Closed February 1990. Continuation in NSAON Log "A"

INDEX FOR CORRESPONDENCE FILE 1.3.6 (NSAON"A")
Documents Outgoing to NSA from ANL

NSAON-	Dated/Rcvd	To/From	Description	Subject
045	010390	Kokalis/Shepard	Memo	A,C,D Walk-Through 27Nov89, Dated 08Dec89
046	010390	Kokalis/Shepard	Memo	AHU-9C (A,C,D Contract), Dated 11Dec89
		Naylor/Ryals	Attachment	(15805,15835) AHU-9C Return Air Plenum (Dated 07Mar88)
		Warren/Ryals	Attachment	Request for proposal (15805,15835) AHU-9C Return Air Plenum (Dated 08Mar88)
		Naylor/Ryals	Attachment	Return Air System for AHU-9C (Dated 05Feb88) Change Order Price Pr
		/Warren	Attachment	Change Order 136 Price Proposal
		Warren/Maiolo	Attachment	JJ Kilin Change Proposal #116 Date 5/9/88 COE Change #P/P136
		/Maiolo	Attachment	JJK Project #476, Change Proposal #116 COE Change #P/P136
		Maiolo/Gawne	Attachment	AHU-9C C.O. #136 Rev. No. 1 (Dated May 5, 1988)
		Warren/Riechers	Attachment	C.O. #136 AHU 9C
			Attachment	Change Order Summary C. O. #136 AHU 9C (Dated 4/12/88)
		Maiolo/Warren	Attachment	Request for Proposal Change Order #136 Rev. #1
		Warren/Shulas	Attachment	C. O. 136 P/P Price
			Attachment	Engineering and Re-Production Cost Estimate Summary (Dated 5/12/88)
			Attachment	Floor Plans for Areas C & D
047	121189	Kokalis/Shepard	Note	Please write Wyman an authorization note for an informal review of the fire- protection systems per our discussion.
048	121889/010390	Kokalis/ Cunningham	Letter	Sprinkler System Informal Review For SPL Facility (Dated 18DEC89)
049	012290	Shepard/Kokalis	Memo	NSC Contractors Meeting Summary, Dated 11Dec89
		List/Nyman	Attachment	Contractors Meeting Summary December 6, 1989 (Dated December 11, 1989)
		Kokalis/Lewis	Note	Attached you will find... (Dated 10- 25-89)
050	013190/020190	Kokalis/Shepard	Memo	Safety Alarms Meeting 31Jan90
051	013190/021290 081089	Kokalis/Shepard Kokalis/Shepard	Memo Atchd Memo Attachment	Safety/Alarms Meeting 31Jan90 Specification Test Schedule Same as above

INDEX FOR CORRESPONDENCE FILE 1.3.6 (NSAON"A")
Documents Outgoing to NSA from ANL

NSAON-	Dated/Rcvd	To/From	Description	Subject
	051789	Soule/Shepard	Attchd Memo	Contractor Quality Control NSA/R108 SPL, Ft. Meade, MD w/Section 01400 CQC Attached
052	020790/021290	Kokalis/Musko	Letter	SPL Wing E Fire-Protection Preliminary Testing Reference: Memo from K. Wade to C. Lewis dated 6Feb90 (same subject as above)
053	020990/021290	Kokalis/Shepard	Memo	Contractor Quality Control, Existing Sprinkler System in UL-E
054	022090	Kokalis/Cunningham	Letter	Lower Level E Fire Protection System
055	041390/041690	Kokalis/Musko	Memo	SPL Sprinkler System Analysis
056	051890/052190	Kokalis/Shepard	Memo	Response to L52 Comments Regarding ANL/SPL Sprinkler Systems Review
057	060790/062690	Kokalis/Shepard	Memo	UL-E Sprinkler Shop Drawing Review
058	062790/071690	Kokalis/McFadden	Letter	Preliminary Current Total Cooling Loads For Chilled Water System (42°F Water) and Process Chilled Water System (39°F-20 % Glycol/Water)
059	070490/071690	Kokalis/Shepard	Memo	UL-E Sprinkler Review
060	070990/071690	Kokalis/Shepard	Memo	NSA/NSC PSR Meeting 28Jun90
061	072490/082390	Kokalis/McFadden	Letter	Sequencing of Chillers
062	080290/082390	Kokalis/McFadden	Letter	Chilled Water System-Lowering of Chilled Water Temperature
063	091190	Bradford- Kokalis/Harrison	Fax trans	'Attached as per conversation this morning'..."Argonne will conduct the following activities during the close- out period between Oct. 1 and Dec. 31, 1990"
064	121490	Kokalis/Shepard	Memo	Transmittal of Argonne National Laboratory Final Report, "Final Construction-Monitoring Report For The Phase-II Enhancements To E- Area, Special Process Laboratories"

**INDEX FOR CORRESPONDENCE FILE 1.3.7 (NSA00)
Documents Outgoing to Other Than NSA**

NSA00-	Dated/Rcvd	To/From	Description	Subject
001	013089	Stevens/Harrison	Memo	Session Chairmanship for Performance Review of National Semiconductor's (NSC) Proposed Enhancements to the Clean Room Systems Located in the NSA Building Ft. Meade, MD
002	013089	Peters/Harrison	Memo	Session Chairmanship for Performance Review of National Semiconductor's (NSC) Proposed Enhancements to the Deionization-Water System Located in the NSA Building Ft. Meade, MD
003	013189	Stevens/Harrison	Memo	Request for Technical Review of National Semiconductor's Enhancements to the Clean Room Systems at the National Security Agency's (NSA's) Special Process Laboratories, Ft. Meade, MD
004	020689	Gerbig/Stevens	Memo	Specifications and layout drawings for NSC's proposed clean room system enhancements
			Enclosure	Same as above
			Enclosure	Construction Specifications NSC/SPL Ft. Meade, MD Facility Enhancements / Package 2 - Enhancements
004	020689	Gerbig/Stevens	Enclosure	Performance Review of the Clean Room Systems at the SPL Building, Ft. Meade, MD
005	020689	Malik/Stevens	Memo	Information Packet for Performance Review of NSC Proposed Enhancements to the Clean Room Systems Located in the NSA Building, Ft. Meade, MD
006	020689	Naegele/Stevens	Letter	Specification and layout drawings for NSC's proposed clean room systems enhancements
007	020689	Rapa/Stevens	Letter	Specification and layout drawings for NSC's proposed clean room systems enhancement
008	020989	Stevens/Harrison	Memo	Request for Technical Review of National Semiconductor's (NSC) Enhancements to the Clean Room Systems at the Special Process Laboratories Building, Ft. Meade, MD

INDEX FOR CORRESPONDENCE FILE 1.3.7 (NSA00)
Documents Outgoing to Other Than NSA

NSA00-	Dated/Rcvd	To/From	Description	Subject
009	020989	Harrison/Harrison	Memo	Request for Technical Review of National Semiconductor's (NSC) Enhancements to the Clean Room Systems at the Special Process Laboratories Building, Ft. Meade, MD
010	020989	Gerbig/Harrison	Letter	Request for Technical Review of National Semiconductor's (NSC) Enhancements to the Clean Room Systems at the Special Process Laboratories Building, Ft. Meade, MD
011	020989	Rapa/Harrison	Letter	Request for Technical Review of National Semiconductor's (NSC) Enhancements to the Clean Room Systems at the Special Process Laboratories Building, Ft. Meade, MD
012	020989	Naegele/Harrison	Letter	Request for Technical Review of National Semiconductor's (NSC) Enhancements to the Clean Room Systems at the Special Process Laboratories Building, Ft. Meade, MD
013	020989	Collentro/Harrison	Letter	Request for Performance Review of National Semiconductor's Enhancement to the Deionized-Water System at the National Security Agency's (NSA's) Special Process Laboratories, Ft. Meade, MD
014	020989	Harrison/Harrison	Memo	Request for Performance Review of National Semiconductor's Enhancement to the Deionized-Water System at the National Security Agency's (NSA's) Special Process Laboratories, Ft. Meade, MD
015	020989	Peters/Harrison	Letter	Request for Performance Review of National Semiconductor's Enhancement to the Deionized-Water System at the National Security Agency's (NSA's) Special Process Laboratories, Ft. Meade, MD
016	020989	Malik/Harrison	Memo	Request for Technical Review of National Semiconductor's (NSC) Enhancements to the Cleanroom System at the Special Process Laboratories Building, Ft. Meade, MD
017	072689	QA File/Harrison	Memo	Termination of "Panelists Filing System"

INDEX FOR CORRESPONDENCE FILE 1.3.7 (NSA00)
Documents Outgoing to Other Than NSA

NSA00-	Dated/Rcvd	To/From	Description	Subject
018	080989	Peters/Harrison	Memo	Informal Review of Problems with Lime-Addition System (and ANL's Recommendations for Problem Solutions) for the Wastewater-Treatment System, SPL Building, Ft. Meade, MD

Closed February 1990. Continuation in NSA00 Log "A"

INDEX FOR CORRESPONDENCE FILE 1.3.8 (NSA00"A")
Documents Outgoing to Other Than NSA

NSA00-	Dated/Rcvd	To/From	Description	Subject
019	121489/010390	File/Musko	Minutes	Minutes of NSA/NSC SPL Construction Meeting Date/Time: December 12, 1989 / 1:00 pm Place: NSA SPL Trailer Ft. Meade, MD
020	010290	File/Harrison	Memo Attachment	Photographs of Deficiencies In Construction In Clean Room Areas Same as above
021	122189/011590	File/Musko	Minutes	Minutes of NSA/NSC SPL Construction Meeting Date/Time: December 19, 1989 / 1:00 pm Place: NSA SPL Trailer Ft. Meade, MD
022	121889/012290	File/Musko	Minutes	Minutes of NSA/NSC SPL Construction Meeting Date/Time: January 16, 1990/ 1:00 pm Place: NSA SPL Trailer Ft. Meade, MD
023	011890/012290	Rosenhan/ Cunningham	Letter	Please find enclosed the original disks for MC^2 programs HP4M and HP6M...
024	011890/021290	File/Musko	Minutes	Minutes of NSA/NSC SPL Construction Meeting Date/Time: January 16, 1990/ 1:00 pm Place: NSA SPL Trailer Ft. Meade, MD
025	012690/021290	File/Musko	Minutes	Minutes of NSA/NSC Meeting on Declassification of LL-E Date/Time: January 25, 1990/ 1:00 pm Place: NSC Office / 10810 Annapolis Junction, Columbia, MD
026	020290/021290	File/Musko	Minutes	Minutes of NSA/NSC SPL Construction Meeting Date/Time: January 30, 1990/ 1:00 pm Place: NSA SPL Trailer Ft. Meade, MD
027	020890/021290	File/Musko	Minutes	Minutes of NSA/NSC SPL Construction Meeting Date/Time: February 6, 1990/ 1:00 pm Place: NSA SPL Trailer Ft. Meade, MD

INDEX FOR CORRESPONDENCE FILE 1.3.8 (NSA00"A")
Documents Outgoing to Other Than NSA

NSA00-	Dated/Rcvd	To/From	Description	Subject
028	021690	Cunningham/ Rosenhan	Letter	Fire flow calculations for NSA/SPL building
029	033090/040490	Harrison/ Rosenhan	Letter	NSA-SPL Sprinkler System Analysis and Modifications
030	033090/041690	Harrison/ Rosenhan	Letter Attachments	NSA/SPL Sprinkler System Analysis and Modifications Schematics, calculations, and narrative material relating to the analysis and proposed modifications to the NSA-SPL building sprinkler system
031	091190	Combs/Harrison	Memo	Revised Closeout Schedule and Budget For Work Conducted Under Proposal P-89033, "Performance Assessment of Systems to Support Semiconductor Manufacturing for the National Security Agency." Budget Estimate attached.

1.4 Index of Documents Pertaining to NSA-Sponsored Formal Reviews

INDEX FOR CORRESPONDENCE FILE 1.4.1 (RNSAIN-OM)
Documents Incoming to ANL from NSA

RNSAIN-	Dated /Rcvd	To/From	Description	Subject
OM1	011290/011490	Harrison/Kokalis	Letter	Request For Review of NSA's Operations and Maintenance Concept for the SPL Building
OM2	032390/040490	Harrison/Kokalis	Memo	Request for Final Draft of SPL O&M Review Report

INDEX FOR CORRESPONDENCE FILE 1.4.2 (RNSAIO-OM)
Documents Incoming to ANL from Other Than NSA

RNSAIO-	Dated/Rcvd	To/From	Description	Subject
OM1	033090	Jones/Harrison	Concurrence	Concurrence Review of ANL's Draft Review Report on NSA's Operations and Maintenance Concepts for the SPL Building (Handwritten suggestion)

INDEX FOR CORRESPONDENCE FILE 1.4.3 (RNSAON-OM)
Documents Outgoing to NSA

RNSAON-	Dated/Rcvd	To/From	Description	Subject
OM1	031290	Kokalis/Harrison	Letter	Agency Manager's Review of Argonne's Draft Review Report on NSA's Operations and Maintenance Concepts for the SPL Building
OM2	031290	File/Harrison	Draft Copy	Review of NSA's Operations and Maintenance Concepts for the Special Process Laboratories Building, Ft. Meade, Maryland
OM3	040590	Kokalis/Harrison	Letter	Final Version of the ANL Review Report on NSA's Operations And Maintenance Concepts for the SPL Building
			Attachment	same as above

INDEX FOR CORRESPONDENCE FILE 1.4.4 (RNSA00-OM)
Documents Outgoing to Other Than NSA

RNSA00-	Dated/Rcvd	To/From	Description	Subject
OM1	011890/011890	Stevens/Harrison	Memo	Your Designation As Review Session Chairman for the ANL-Conducted Peer Review of NSA's Operations and Maintenance Concept for the SPO Building
			Attachments	Beneficial Occupancy Date, Fit-Up Contracting, 100% Government Operation, Proposed Resources, Proposed Organizational Structure
OM2	012990	File/Harrison	Memo	Scoping the Review of the Operations and Maintenance Concept for the SPL Building
	011290/011490	Harrison/Kokalis	Attachment	Request for Review of NSA's Operations and Maintenance Concept for the SPL Building
	012390	File/Harrison	Attachment	Telephone Conference between David Kokalis, Wyman Harrison, and Herbert Stevens - January 19, 1990
			Attachment	O&M Objectives (2 pgs) "Scoping The Review" and "Steps in the Review"
OM3	020690	Morgan/Harrison	Letter	Request for Review of the Operations and Maintenance Concept for the Special Process Laboratories (SPL) Building at Ft. Meade, MD
OM4	020690	Jones/Harrison	Letter	Request for Review of the Operations and Maintenance Concept for the Special Process Laboratories (SPL) Building at Ft. Meade, MD
OM5	020690	Liarakos/Harrison	Letter	Request for Review of the Operations and Maintenance Concept for the Special Process Laboratories (SPL) Building at Ft. Meade, MD
OM6	020690	Harrison/Harrison	Memo	Request for Review of the Operations and Maintenance Concept for the Special Process Laboratories (SPL) Building at Ft. Meade, MD
OM7	020690	Cunningham/Harrison	Letter	Request for Review of the Operations and Maintenance Concept for the Special Process Laboratories (SPL) Building at Ft. Meade, MD

INDEX FOR CORRESPONDENCE FILE 1.4.4 (RNSA00-OM)
Documents Outgoing to Other Than NSA
(Cont'd)

RNSA00-	Dated/Rcvd	To/From	Description	Subject
OM8	020690	Musko/Harrison	Letter	Request for Review of the Operations and Maintenance Concept for the Special Process Laboratories (SPL) Building at Ft. Meade, MD
OM9	020690	Shepard/Harrison	Letter	Request for Review of the Operations and Maintenance Concept for the Special Process Laboratories (SPL) Building at Ft. Meade, MD
OM10	020690	Stevens/Harrison	Memo	Request for Review of the Operations and Maintenance Concept for the Special Process Laboratories (SPL) Building at Ft. Meade, MD
OM11	031290	Musko/Harrison	Memo	Concurrence Review of ANL's Draft Review on NSA's Operations and Maintenance Concept for the SPL Building
OM12	031290	Stevens/Harrison	Memo	Concurrence Review of ANL's Draft Review on NSA's Operations and Maintenance Concept for the SPL Building
OM13	31290	Harrison/Harrison	Memo	Concurrence Review of ANL's Draft Review on NSA's Operations and Maintenance Concept for the SPL Building
OM14	031290	Cunningham/Harrison	Letter	Concurrence Review of ANL's Draft Review on NSA's Operations and Maintenance Concept for the SPL Building
OM15	031290	Jones/Harrison	Letter	Concurrence Review of ANL's Draft Review on NSA's Operations and Maintenance Concept for the SPL Building
OM16	031290	Liarakos/Harrison	Letter	Concurrence Review of ANL's Draft Review on NSA's Operations and Maintenance Concept for the SPL Building
OM17	031290	Morgan/Harrison	Letter	Concurrence Review of ANL's Draft Review on NSA's Operations and Maintenance Concept for the SPL Building

INDEX FOR CORRESPONDENCE FILE 1.4.4 (RNSA00-OM)
Documents Outgoing to Other Than NSA
(Cont'd)

RNSA00-	Dated/Rcvd	To/From	Description	Subject
OM18	031290	Shepard/Harrison	Memo	Concurrence Review of ANL's Draft Review on NSA's Operations and Maintenance Concept for the SPL Building
OM19	031290	File/Harrison	Draft Copy	Review of NSA's Operations and Maintenance Concepts for the Special Process Laboratories Building, Ft. Meade, Maryland (draft)
OM20	031990	Cunningham/Harrison	Concurrence	Concurrence Review of ANL's Draft Review Report on NSA's Operations and Maintenance Concepts for the SPL Building
OM21	031990	Musko/Harrison	Concurrence	Concurrence Review of ANL's Draft Review Report on NSA's Operations and Maintenance Concepts for the SPL Building
OM22	031990	Shepard/Harrison	Concurrence	Concurrence Review of ANL's Draft Review Report on NSA's Operations and Maintenance Concepts for the SPL Building
OM23	032390	QA File/Harrison	Memo	Unrequested Comments Provided on Draft ANL Review Report by NSA's Robert Spriggs

1.5 NSA-Sponsored Formal Reviews

**DOCUMENTS PERTAINING TO THE NSA-SPONSORED FORMAL PERFORMANCE REVIEW OF
NATIONAL SEMICONDUCTOR'S (NSC'S) PROPOSED ENHANCEMENTS TO THE CLEAN ROOM
SYSTEMS LOCATED IN NSA'S SPL BUILDING AT FT. MEADE, MARYLAND
1.5.1**

FILE-	Dated/Rcvd	To/From	Description	Subject
NSA00-001	013089	Stevens/Harrison	Memo	Session Chairmanship for Performance Review of National Semiconductor's (NSC) Proposed Enhancements to the Clean Room Systems Located in the NSA Building at Ft. Meade, Maryland
NSA00-003	013189	Stevens/Harrison	Memo	Request for Technical Review of NSC's Enhancements to the Clean Room Systems at the NSA's Special Process Laboratories, Ft. Meade, Maryland
NSAIO-002	020189	File/Harrison	Memo	Signature Authorization for P.A. Kulzer
NSAIO-001	020389	File/Harrison	Memo	Scoping the Technical Review
NSA00-004	020689	Gerbig/Stevens	Memo	Background Information (pertinent specifications and layout drawings) for NSC Proposed Enhancements to Clean Room Systems in the SPL Building, Ft. Meade, Maryland
NSA00-005	020689	Malik/Stevens	Memo	Information Packet for Performance Review of NSC Proposed Enhancements to Clean Room Systems Located in the NSA SPL Building at Ft. Meade, Maryland
NSA00-006	020689	Naegele/Stevens	Letter	Information Packet for Performance Review of NSC Proposed Enhancements to Clean Room Systems Located in the NSA SPL Building at Ft. Meade, Maryland
NSA00-007	020689	Rapa/Stevens	Memo	Information Packet for Performance Review of NSC Proposed Enhancements to Clean Room Systems Located in the NSA SPL Building at Ft. Meade, Maryland
NSA00-008	020989	Stevens/Harrison	Memo	Request for Technical Review of National Semiconductor's (NSC) Enhancements to the Clean Room Systems at the Special Process Laboratories Building, Ft. Meade, Maryland
NSA00-009	020989	Harrison/Harrison	Memo	Request for Technical Review of National Semiconductor's (NSC) Enhancements to the Clean Room Systems at the Special Process Laboratories Building, Ft. Meade, Maryland

**DOCUMENTS PERTAINING TO THE NSA-SPONSORED FORMAL PERFORMANCE REVIEW OF
NATIONAL SEMICONDUCTOR'S (NSC'S) PROPOSED ENHANCEMENTS TO THE CLEAN ROOM
SYSTEMS LOCATED IN NSA'S SPL BUILDING AT FT. MEADE, MARYLAND
1.5.1**

FILE-	Dated/Rcvd	To/From	Description	Subject
NSA00-010	020989	Gerbis/Harrison	Letter	Request for Technical Review of National Semiconductor's (NSC) Enhancements to the Clean Room Systems at the Special Process Laboratories Building, Ft. Meade, Maryland
NSA00-011	020989	Rapa/Harrison	Letter	Request for Technical Review of National Semiconductor's (NSC) Enhancements to the Clean Room Systems at the Special Process Laboratories Building, Ft. Meade, Maryland
NSA00-012	020989	Naegele/Harrison	Letter	Request for Technical Review of National Semiconductor's (NSC) Enhancements to the Clean Room Systems at the Special Process Laboratories Building, Ft. Meade, Maryland
NSA00-016	020989	Malik/Harrison	Memo	Request for Technical Review of National Semiconductor's (NSC) Enhancements to the Clean Room Systems at the Special Process Laboratories Building, Ft. Meade, Maryland
NSAIO-004	030189	File/Harrison	Memo	Signature Authorization for L. Narug

**DOCUMENTS PERTAINING TO THE NSA-SPONSORED FORMAL PERFORMANCE REVIEW OF
THE DEIONIZED-WATER AND WASTEWATER-TREATMENT SYSTEMS LOCATED IN NSA'S
SPL BUILDING AT FT. MEADE, MARYLAND
1.5.2**

FILE-	Dated/Rcvd	To/From	Description	Subject
NSAON-001	012589	Hoehn/Harrison, Peters	Letter	Sense-of-the-Meeting Report for the Tiger Team's Review of the SPL's Deionized-Water System, Jan. 18/19, 1989
NSA00-002	013089	Peter/Harrison	Memo	Session Chairmanship for Performance Review of NSC Proposed Enhancements to the Deionization-Water System Located in the NSA Building at Ft. Meade, Maryland
NSAIO-002	020189	File/Harrison	Memo	Signature Authorization for P. A. Kulzer
NSA00-013	020989	Collentro/Harrison	Letter	Request for Performance Review of National Semiconductor's Enhancements to the National Security Agency's (NSA's) Special Process Laboratories, Ft. Meade, Maryland
NSA00-014	020989	Harrison/Harrison	Memo	Request for Performance Review of National Semiconductor's Enhancements to the National Security Agency's (NSA's) Special Process Laboratories, Ft. Meade, Maryland
NSA00-015	020989	Peters/Harrison	Memo	Request for Performance Review of National Semiconductor's Enhancements to the National Security Agency's (NSA's) Special Process Laboratories, Ft. Meade, Maryland
NSAIO-003	030289	Harrison/Collentro	Letter	Comments Regarding Facility Enhancements at the SPL, Ft. Meade, MD- Deionized-Water Purification Systems
NSAIO-004	030189	File/Harrison	Memo	Signature Authorization for L. Narug

**DOCUMENTS PERTAINING TO THE NSA-SPONSORED FORMAL PERFORMANCE REVIEW OF
THE HIGH-PURITY-GAS PIPING SYSTEM LOCATED IN NSA'S SPL BUILDING AT
FT. MEADE, MARYLAND
1.5.3**

FILE-	Dated/Rcvd	To/From	Description	Subject
NSAIO-002	020189	File/Harrison	Memo	Signature Authorization for P. A. Kulzer
NSAIO-004	030189	File/Harrison	Memo	Signature Authorization for L. Narug
NSAIO-006	041789	File	Report	Preliminary Data from Slack Associates on Leak Check of High-Purity-Gas Pipe System

**DOCUMENTS PERTAINING TO THE NSA-SPONSORED FORMAL PERFORMANCE REVIEW OF
NSA'S OPERATIONS AND MAINTENANCE CONCEPT FOR THE SPL BUILDING
1.5.4**

RNSA-	Dated / Revd	To/From	Description	Subject
IN-OM1	011290 011490	Harrison/Kokalis	Letter	Request for Review of NSA's Operations and Maintenance Concept for the SPL Building
IN-OM2	032390 040490	Harrison/Kokalis	Memo	Request for Final Draft of SPL O&M Review Report
IO-OM1	033090	Jones/Harrison	Concurrence	Concurrence Review of ANL's Draft Review Report on NSA's Operations and Maintenance Concepts for the SPL Building (Handwritten suggestion)
ON-OM1	031290	Kokalis/Harrison	Letter	Agency Manager's Review of Argonne's Draft Review Report on NSA's Operations and Maintenance Concepts for the SPL Building
ON-OM2	031290	File/Harrison	Draft Copy	Review of NSA's Operations and Maintenance Concepts for the Special Process Laboratories Building, Ft. Meade, Maryland
ON-OM3	040590	Kokalis/Harrison	Letter	Final Version of the ANL Review Report on NSA's Operations and Maintenance Concepts for the SPL Building
			Attachment	same as above
OO-OM1	011890 011890	Stevens/Harrison	Memo	Your Designation as Review Session Chairman for the ANL-Conducted Peer Review of NSA's Operations and Maintenance Concept for the SPL Building
			Attachments	Beneficial Occupancy Date, Fit-Up Contracting, 100% Government Operation, Proposed Resources, Proposed Organizational Structure
OO-OM2	012990	File/Harrison	Memo	Scoping the Review Of the Operations and Maintenance Concept for the SPL Building
	011290 011490	Harrison/Kokalis	Attachment	Request for Review of NSA's Operations and Maintenance Concept for the SPL Building
	012390	File/Harrison	Attachment	Telephone Conference between David Kokalis, Wyman Harrison, and Herbert Stevens - January 19, 1990
			Attachment	O&M Objectives (2 pgs) "Scoping the Review" and "Steps in the Review"

**DOCUMENTS PERTAINING TO THE NSA-SPONSORED FORMAL PERFORMANCE REVIEW OF
NSA'S OPERATIONS AND MAINTENANCE CONCEPT FOR THE SPL BUILDING
1.5.4**

RNSA-	Dated / Rcvd	To/From	Description	Subject
OO-OM3	020690	Morgan/Harrison	Letter	Request for Review of the Operations and Maintenance Concept for the Special Process Laboratories (SPL) Building at Ft. Meade, MD
OO-OM4	020690	Jones/Harrison	Letter	Request for Review of the Operations and Maintenance Concept for the Special Process Laboratories (SPL) Building at Ft. Meade, MD
OO-OM5	020690	Liarakos/Harrison	Letter	Request for Review of the Operations and Maintenance Concept for the Special Process Laboratories (SPL) Building at Ft. Meade, MD
OO-OM6	020690	Harrison/Harrison	Memo	Request for Review of the Operations and Maintenance Concept for the Special Process Laboratories (SPL) Building at Ft. Meade, MD
OO-OM7	020690	Cunningham/Harrison	Letter	Request for Review of the Operations and Maintenance Concept for the Special Process Laboratories (SPL) Building at Ft. Meade, MD
OO-OM8	020690	Musko/Harrison	Letter	Request for Review of the Operations and Maintenance Concept for the Special Process Laboratories (SPL) Building at Ft. Meade, MD
OO-OM9	020690	Shepard/Harrison	Letter	Request for Review of the Operations and Maintenance Concept for the Special Process Laboratories (SPL) Building at Ft. Meade, MD
OO-OM10	020690	Stevens/Harrison	Memo	Request for Review of the Operations and Maintenance Concept for the Special Process Laboratories (SPL) Building at Ft. Meade, MD
OO-OM11	031290	Musko/Harrison	Memo	Concurrence Review of ANL's Draft Review on NSA's Operations and Maintenance Concept for the SPL Building
OO-OM12	031290	Stevens/Harrison	Memo	Concurrence Review of ANL's Draft Review on NSA's Operations and Maintenance Concept for the SPL Building
OO-OM13	31290	Harrison/Harrison	Memo	Concurrence Review of ANL's Draft Review on NSA's Operations and Maintenance Concept for the SPL Building

*NSA-Sponsored Formal Review -
Operations and Maintenance Concept*

61/62

**DOCUMENTS PERTAINING TO THE NSA-SPONSORED FORMAL PERFORMANCE REVIEW OF
NSA'S OPERATIONS AND MAINTENANCE CONCEPT FOR THE SPL BUILDING
1.5.4**

RNSA-	Dated / Rcvd	To/From	Description	Subject
OO-OM14	031290	Cunningham/Harrison	Letter	Concurrence Review of ANL's Draft Review on NSA's Operations and Maintenance Concept for the SPL Building
OO-OM15	031290	Jones/Harrison	Letter	Concurrence Review of ANL's Draft Review on NSA's Operations and Maintenance Concept for the SPL Building
OO-OM16	031290	Liarakos/Harrison	Letter	Concurrence Review of ANL's Draft Review on NSA's Operations and Maintenance Concept for the SPL Building
OO-OM17	031290	Morgan/Harrison	Letter	Concurrence Review of ANL's Draft Review on NSA's Operations and Maintenance Concept for the SPL Building
OO-OM18	031290	Shepard/Harrison	Memo	Concurrence Review of ANL's Draft Review on NSA's Operations and Maintenance Concept for the SPL Building
OO-OM19	031290	File/Harrison	Draft Copy	Review of NSA's Operations and Maintenance Concepts for the Special Process Laboratories Building, Ft. Meade, Maryland (draft)
OO-OM20	031990	Cunningham/Harrison	Concurrence	Concurrence Review of ANL's Draft Review Report on NSA's Operations and Maintenance Concepts for the SPL Building
OO-OM21	031990	Musko/Harrison	Concurrence	Concurrence Review of ANL's Draft Review Report on NSA's Operations and Maintenance Concepts for the SPL Building
OO-OM22	031990	Shepard/Harrison	Concurrence	Concurrence Review of ANL's Draft Review Report on NSA's Operations and Maintenance Concepts for the SPL Building
OO-OM23	032390	QA File/Harrison	Memo	Unrequested Comments Provided On Draft ANL Review Report By NSA's Robert Spriggs

1.6 NSA-Sponsored Informal Reviews

**INDEX OF DOCUMENTS PERTAINING TO THE NSA-SPONSORED INFORMAL REVIEW OF
PROPOSED ENHANCEMENTS TO THE CLEAN ROOM SYSTEMS,
SPL BUILDING, FT. MEADE, MARYLAND
1.6.1**

FILE-	Dated/Rcvd	To/From	Description	Subject
NSAON-003	022389	Soule/Harrison	Letter	Argonne's Interim Review Report On National Semiconductor Corporation's Enhancements to the Clean Room Systems at the Special Process Laboratories
			Enclosure	Internal Document / Interim Review of National Semiconductor Corp's Enhancements to the Clean Room System at SPL, Ft. Meade
NSAON-010	073189	Kokalis/Harrison	Letter	Informal Argonne Review of Clean Room Construction at the SPL, July 20, 1989
			Attachment	Clean Room Construction at SPL, Progress Review Trip, Gerbig
NSA00-001	010389	Stevens/Harrison	Memo	Session Chairmanship for Performance Review of National Semiconductor's (NSC) Proposed Enhancements to the Clean Room Systems Located in the NSA Building Ft. Meade, MD
NSA00-003	013189	Stevens/Harrison	Memo	Request for Technical Review of National Semiconductor's Enhancements to the Clean Room Systems at the National Security Agency's (NSA's) Special Process Laboratories, Ft. Meade, MD
NSA00-004	020689	Gerbig/Stevens	Memo	Specifications and layout drawings for NSC's proposed clean room system enhancements
			Enclosure	Same as above
			Enclosure	Construction Specifications NSC/SPL Ft. Meade, MD Facility Enhancements / Package 2 - Enhancements
			Enclosure	Performance Review of the Clean Room Systems at the SPL Building, Ft. Meade, MD
NSA00-005	020689	Malik/Stevens	Memo	Information Packet for Performance Review of NSC Proposed Enhancements to the Clean Room Systems Located in the NSA Building, Ft. Meade, MD
NSA00-006	020689	Naegele/Stevens	Letter	Specification and layout drawings for NSC's proposed clean room systems enhancements
NSA00-007	020689	Rapa/Stevens	Letter	Specification and layout drawings for NSC's proposed clean room systems enhancements
NSA00-008	020989	Stevens/Harrison	Memo	Request for Technical Review of National Semiconductor's (NSC) Enhancements to the Clean Room Systems at the Special Process Laboratories Building, Ft. Meade, MD

**INDEX OF DOCUMENTS PERTAINING TO THE NSA-SPONSORED INFORMAL REVIEW OF
PROPOSED ENHANCEMENTS TO THE CLEAN ROOM SYSTEMS,
SPL BUILDING, FT. MEADE, MARYLAND
1.6.1**

FILE-	Dated/Rcvd	To/From	Description	Subject
NSA00-009	020989	Harrison/Harrison	Memo	Request for Technical Review of National Semiconductor's (NSC) Enhancements to the Clean Room Systems at the Special Process Laboratories Building, Ft. Meade, MD
NSA00-010	020989	Gerbig/Harrison	Letter	Request for Technical Review of National Semiconductor's (NSC) Enhancements to the Clean Room Systems at the Special Process Laboratories Building, Ft. Meade, MD
NSA00-011	020989	Rapa/Harrison	Letter	Request for Technical Review of National Semiconductor's (NSC) Enhancements to the Clean Room Systems at the Special Process Laboratories Building, Ft. Meade, MD
NSA00-012	020989	Naegele/Harrison	Letter	Request for Technical Review of National Semiconductor's (NSC) Enhancements to the Clean Room Systems at the Special Process Laboratories Building, Ft. Meade, MD
NSA00-016	020989	Malik/Harrison	Memo	Request for Technical Review of National Semiconductor's (NSC) Enhancements to the Clean Room System at the Special Process Laboratories Building, Ft. Meade, MD
NSAIO-001	020389	File/Harrison	Memo	Scoping the Technical Review
NSAIO-007	041789	File/Rapa	Report	NSA Special Processing Lab - Design Comments
NSAIO-015	072889	File/Gerbig	Report	Clean Room Construction at SPL, Ft. Meade, Progress Review Trip

**INDEX OF DOCUMENTS PERTAINING TO THE NSA-SPONSORED INFORMAL REVIEW OF
PACKAGE 5, ENVIRONMENTAL PROTECTION SYSTEMS ENHANCEMENTS, SPL BUILDING,
FT. MEADE, MARYLAND
1.6.2**

FILE-	Dated/Rcvd	To/From	Description	Subject
NSAIO-011	060789	File/ANL-NSA Personnel	Addendum	Addendum 1 to Package 5
NSAON-004	061689	Kokalis/Harrison	Letter Attachment	Informal Review of NSC's "Package 5" Spec Informal Review of NSC's Package 5 "Environmental Protection Systems"
NSAON-007	071789	Kokalis/Harrison	Letter Attachment	Final Version of ANL's Informal Review of National Semiconductor Corporation's Package 5 "Environmental Protection Systems" Same as above

**DOCUMENTS PERTAINING TO THE NSA-SPONSORED INFORMAL REVIEW OF THE
LIME-ADDITION SYSTEM FOR THE WASTEWATER-TREATMENT SYSTEM, SPL BUILDING,
FT. MEADE, MD
1.6.3**

FILE-	Dated/Rcvd	To/From	Description	Subject
NSAON-028	083189	Kokalis/Harrison	Letter	Final Version of ANL's "Informal Review of Problems with Lime Addition System and Acid/Caustic Storage Tank Systems" in the SPL Building
			Enclosure	Informal Review of Problems with the SPL Building's Lime-Addition System and Acid/Caustic Storage Tank System
NSA00-018	080989	Peters/Harrison	Memo	Informal Review of Problems with Lime-Addition System (and ANL's Recommendations for Problem Solutions) for the Wastewater-Treatment System, SPL Building, Ft. Meade, MD

**INDEX OF DOCUMENTS PERTAINING TO THE NSA-SPONSORED INFORMAL REVIEW OF THE
LEPCO/MEBES III DOCUMENT REVIEW, SPL BUILDING, FT. MEADE, MARYLAND
1.6.4**

FILE-	Dated/Rcvd	To/From	Description	Subject
NSAIO-009	051289/052289	Book	Submittal	Temperature Control Submittal for Ft. Meade
NSAIO-029	040789	/Shepard	Memo	LEPCO Document Review, SPL/NSA, Ft. Meade, MD
NSAIN-004	080989	Kokalis/Quinlivan	Letter	LEPCO's response to deficiencies defined by ANL
			Attachment	Minutes of NSA/NSC Construction Meeting: Date/Time: August 8, 1989/1:00 pm Ft. Meade, MD
		Quinlivan/Kelicho	Attachment	RE; Ft. Meade MEBES Facility
NSAON-014	080389	Kokalis/Shepard	Memo	Owner-Supplied Equipment for MEBES Area (LEPCO Work Area) SPL/NSA, Ft. Meade, MD

**INDEX OF DOCUMENTS PERTAINING TO THE NSA-SPONSORED INFORMAL REVIEW OF THE
ION EXCHANGE ASSOCIATES, INC., SPECIFICATIONS FOR MULTI-MEDIA FILTERS, SPL
BUILDING, FT. MEADE, MARYLAND
1.6.5**

FILE-	Dated/Rcvd	To/From	Description	Subject
NSAON-011	073189	Kokalis/Harrison	Letter	Informal Review of ION Exchange Associates, Inc., Specifications for Multi-Media Filters
			Attachment	Technical Review of Specifications for Multimedia Filters for the SPL Building's Deionized-Water System
NSAIO-030	061589	Maley/Frederick	Letter	First effort at producing a specification for the procurement of multi-media filters for addition to the SPL high-purity water-treatment system
			Enclosure	Procurement Specification / Multi-Media Filter Addition

**INDEX OF DOCUMENTS PERTAINING TO THE NSA-SPONSORED INFORMAL REVIEW OF THE
PROPOSED ENHANCEMENTS TO THE DEIONIZED-WATER SYSTEM LOCATED IN THE NSA
SPL BUILDING, FT. MEADE, MARYLAND
1.6.6**

FILE-	Dated/Rcvd	To/From	Description	Subject
NSAIN-008	091889	Kokalis/Cunningham	Letter	D.I. Water Treatment System Enhancements
NSAIO-003	030289	Harrison/Collentro	Letter	Comments Regarding Facility Enhancements at the Special Process Laboratories, Ft. Meade, MD - Deionized-Water Purification System
NSA00-002	013089	Peters/Harrison	Memo	Session Chairmanship for Performance Review of National Semiconductor's (NSC) Proposed Enhancements to the Deionization Water System Located in the NSA Building, Ft. Meade, MD
NSA00-013	020989	Collentro/Harrison	Letter	Request for Performance Review of National Semiconductor's Enhancement to the Deionized-Water System at the National Security Agency's (NSA's) Special Process Laboratories, Ft. Meade, MD
NSA00-014	020989	Harrison/Harrison	Memo	Request for Performance Review of National Semiconductor's Enhancement to the Deionized-Water System at the National Security Agency's (NSA's) Special Process Laboratories, Ft. Meade, MD
NSA00-015	020989	Peters/Harrison	Letter	Request for Performance Review of National Semiconductor's Enhancement to the Deionized-Water System at the National Security Agency's (NSA's) Special Process Laboratories, Ft. Meade, MD
NSAON-001	012589	Hoehn/Harrison/ RWP	Letter	Sense-of-the-Meeting Report for the Tiger Team's Review of the SPL's Deionized-Water System, January 18/19, 1989...
			Attachment A	ANL's Original Performance Review Report on the Deionized-Water and Wastewater-Treatment Systems
			Attachment B	Process Flow Diagram of Enhancements Agreed to by NSC, NSA & ANL
			Attachment C	Description of Enhancements Agreed to by NSC, NSA & ANL
			Attachment D	ANL Commentary on Minimal Enhancements Required to Produce Semiconductor Grade Water and Expected Performance of Proposed Enhancements
			Enclosure	System Performance Review of the Deionized-Water and Wastewater-Treatment Systems at the Special Process Laboratories, Ft. Meade, MD

**INDEX OF DOCUMENTS PERTAINING TO THE NSA-SPONSORED INFORMAL REVIEW OF THE
SPL SPRINKLER SYSTEM, SPL BUILDING, FT. MEADE, MARYLAND
1.6.7**

FILE-	Dated/Rcvd	To/From	Description	Subject
NSAIO-046	011890/021290	Shepard/Smith	Memo Enclosure	Sprinkler System Serving the SPL Building Outline of problem with the SPL sprinkler system..."Main line water pressure has dropped below value required to provide adequate sprinkler coverage to the SPL Facility. Argonne to review the situation and recommend corrective action required."
NSAON-047	121189	Kokalis/Shepard	Note	Please write Wyman an authorization note for an informal review of the fire-protection systems per our discussion.
NSAON-048	121889/010390	Kokalis/Cunningham	Letter	Sprinkler System Informal Review for SPL Facility (Dated 18Dec89)
NSAON-053	020990/021290	Kokalis/Shepard	Memo	Contractor Quality Control, Existing Sprinkler System in UL-E
NSAON-054	022090	Kokalis/Cunningham	Letter	Lower Level E Fire-Protection System
NSA00-023	011890/012290	Rosenhan/Cunningham	Letter	Please find enclosed the original disks for MC^2 programs HP4M & HP6M...
NSA00-028	021690	Cunningham/Rosenhan	Letter	Fire flow calculations for NSA/SPL building
NSAIN-009	091889	Kokalis/Cunningham	Letter	Sprinkler System Calculation Review
NSA00-029	032390/040490	Harrison/Rosenhan	Letter	NSA-SPL Sprinkler System Analysis and Modifications
NSA00-030	033090/041690	Harrison/Rosenhan	Letter Attachments	NSA-SPL Sprinkler System Analysis and Modifications Schematics, calculations, and narrative material relating to the analysis and proposed modifications to the NSA-SPL Building sprinkler system
NSAON-055	041390/041690	Kokalis/Musko	Memo	SPL Sprinkler System Analysis

**INDEX OF DOCUMENTS PERTAINING TO THE NSA-SPONSORED INFORMAL REVIEW OF THE
SPL SPRINKLER SYSTEM, SPL BUILDING, FT. MEADE, MARYLAND
1.6.7**

FILE-	Dated/Rcvd	To/From	Description	Subject
NSAON-056	051890/052190	Kokalis/Shepard	Memo	Response to L52 Comments Regarding ANL/SPL Sprinkler Systems Review
NSAIO-047	051690/052990	Cunningham/Shepard	Fax Trans	T. Cunningham's response to project review comments made by Matt Walch (L521) to Jerry Pogue 5-14-90 (attached)
NSAON-057	060790/062690	Kokalis/Shepard	Memo	UL-E Sprinkler Shop Drawing Review
NSAON-059	070490/071690	Kokalis/Shepard	Memo	UL-E Sprinkler Review

**INDEX OF DOCUMENTS PERTAINING TO THE NSA-SPONSORED INFORMAL REVIEW OF THE
CHILLED WATER SYSTEM, SPL BUILDING, FT. MEADE, MARYLAND
1.6.8**

FILE-	Dated/Rcvd	To/From	Description	Subject
NSAON-058	062790/071690	Kokalis/McFadden	Letter	Preliminary Current Total Cooling Loads For Chilled Water System (42°F Water) and Process Chilled Water System (39°F-20 % Glycol/Water)
NSAON-060	070990/071690	Kokalis/Shepard	Memo	NSA/NSC PSR Meeting 28Jun90
NSAON-061	072490/082390	Kokalis/McFadden	Letter	Sequencing of Chillers
NSAON-062	080290/082390	Kokalis/McFadden	Letter	Chilled Water System-Lowering of Chilled Water Temperature

75/76

**2 NON-QUALITY-ASSURED RECORDS OF
PROJECT-RELATED DOCUMENTS**

2.1 General Activities File
(Documents are listed by date of receipt)

GENERAL ACTIVITIES INDEX* 2.1

GA-	Dated/	Rcvd	To/From	Description	Subject
001	081089	033090	Kokalis/Shepard	Memo	Specification Test Schedule
002	092089		Kokalis/Maley	Memo	Occupancy Rating of Gas Storage Rooms
			Kokalis/Etheredge	Attachment Attachment	Declassification of the Gas Rooms Air Changes in Gas Rooms (calculations from Wagner Group regarding the number of air changes/hour)
003	101989		Kokalis/Cunningham	Letter	Backpressure Control Valves For D.I. System
004	101989		Kokalis/Cunningham	Memo	Request for information: SPL maintenance plan that includes the operation and maintenance of the DI Water System
005	102089		Kokalis/Shepard	Memo	Union Carbide Industrial Gases, Inc. Drawings for Bulk Storage Area (Sheets MIDATL-D-89-01 through 06) SPL/NSA, Ft. Meade, MD
006	102389		Kokalis/Cunningham	Memo	SPL Acquisition Purchase Description (requesting copies of documents pertinent to)
007	102589		Kokalis/Shepard	Memo	Area C Sprinkler Escutcheons
008	102789		Kokalis/Shepard	Memo Attachment	Insulated Flex Duct TP15805-7.1.8.1b
009	102889		Kokalis/Shepard	Memo	Contractor Quality Control, Test Procedures
			Kokalis/Shepard	Atchd Memo	Protective Grilles for HEPA Filters (Dated 18Oct89)
			Kokalis/Shepard	Atchd Memo	Liquid Hydrogen & Nitrogen Bulk Storage Area (Dated 18Oct89)
				Drawing	Underground (hot water) Yard Hydrant System
			Kokalis/Cunningham	Letter	Meeting of October 12 on the High Purity Piping (Dated 17Oct89)
			Kokalis/Cunningham	Letter	Budget Costs For Multimedia Filters (Rev'd 16Oct89)(Dated 13Oct89)
			Kokalis/Shepard	Memo	Insulation Insert Deficiency, NSA, Ft. Meade, MD (Rev'd 13Oct89)(Dated 13Oct89)
			Kokalis/Shepard	Memo	10,000 Corridors (Rev'd 16Oct89)(Dated 11Oct89)...

GENERAL ACTIVITIES INDEX 2.1
(Cont'd)

GA-	Dated/	Rcvd	To/From	Description	Subject
			Kokalis/Shepard	Attchd Memo	Clean Room Corridors, SPL/NSA, Ft. Meade, MD
			Kokalis/Shepard	Memo	Paint Supplier for the SPL, SPL/NSA Ft. Meade, MD (Rcvd 16Oct89)(Dated 09Oct89)
			Kokalis/Shepard	Memo	Deficiency List (Rcvd 16Oct89)(Dated 09Oct89)
			Kokalis/Shepard	Attachment Memo	Same as above
			Kokalis/Shepard	Attachment Memo	Painting for the SPL, NSA/SPL F. Meade, MD (Dated 06Oct89)
			Kavouris/Axelson	Attachment	Information pertaining to the coating/paint used in the SPL
			Maginot/Kavourix	Attachment	SPL Section 09910, General Painting Materials Submittal
			Kokalis/Cunningham	Memo	Reverse Osmosis System Operation (RO-503) (Dated 04Oct89)
			Kokalis/Shepard	Memo	Cleanliness Levels for UL-C (Dated 04Oct89)
			Kokalis/Shepard	Memo	UL-E Fire Damper Installation
			Kokalis/Shepard	Memo	Marshall Group Schedule Dated 21Jun89 (Dated 25Jul89)
			Soule/Shepard	Memo	Marshall Group Schedule Dated 30May89(Dated 07Jul89)
010	103189		Kokalis/Shepard	Memo	Vibration Isolation, SPL/NSA, Ft. Meade, MD
011	110289		/Cunningham		Backwash Flowrates For Carbon Beds
012	110289		Kokalis/Shepard	Memo	Leak in Hot Water Heating System, SPL/NSA, Ft. Meade, MD
013	110389		Kokalis/Cunningham	Memo	Pretreatment Filters for D. I. System
014	110689		Kokalis/Cunningham	Memo	Request for information: past performance values of the SPL Reverse Osmosis Units
015	110789		Kokalis/Cunningham	Memo	D. I. System Booster Pumps
016	111089		Kokalis/Musko	Memo	LEPCO Fault Current Calculations
017	111389		Kokalis/Musko	Memo	LEPCO Fault Current Calculations
018	111489		Kokalis/Musko	Memo	PA and Intercom Conduit & Shielding Requirements
019	111789		Kokalis/Cunningham	Letter Attachment	Sprinkler Systems NFPA Standard for the Installation of Sprinkler Systems

GENERAL ACTIVITIES INDEX 2.1
(Cont'd)

GA-	Dated/	Rcvd	To/From	Description	Subject
020	111789		Kokalis/Musko	Memo	Square D Manual Starter; Deficiency 785
021	111789		Kokalis/Shepard	Memo	UL-E Exit Egress, SPL/NSA Ft. Meade, MD
022	112089		Kokalis/Shepard	Memo	Air/Water Leaks, SPL/NSA Ft. Meade, MD
023	112189		Kokalis/Musko	Memo	Deficiency 786 Backup, Cable Overcurrent Protection
024	110889		Cunningham/Kokalis	Memo	Punch List For Lower Level E
025	110989		Cunningham/Kokalis	Memo	Punch List For Lower Level E
026	112889	121089	Kokalis/Cunningham	Letter	Manufacturer's Representative during Equipment Installation
027	112889	121089	Kokalis/Cunningham	Letter	Preliminary Specification Review of Ultrafilter System
028	113089	121089	Kokalis/Cunningham	Memo	Reverse Osmosis Cleaning Plan
029	120189	121089	Kokalis/Shepard	Memo	Material/Labor Substitutions/Deletions, First Phase Punchlist Status, First Phase Activity Report for Phase Two Use (attachments)
030	120189	121089	Kokalis/Cunningham	Letter	Valving on Ultrafilter System
031	121189	010390	List/Nyman	Minutes	Contractors Meeting Summary 6 December 1989
032	121189	010390	Kokalis/Shepard	Memo	Steam Generator Installation
033	121489	010390	Kokalis/Musko	Memo Attachments	Review of NSC Proposed Intercom System for Wing E Sketches
034	122089	010390	Kokalis/Cunningham	Letter	Identification of Toxic Gas Sample Tubing
035	122089	010390	Kokalis/Musko	Memo	Penetration into Electrical Substation Room
036	122089	010390	Kokalis/Musko	Memo	SPL Facility Enhancements Package 2 Construction Major Electrical Deficiencies

GENERAL ACTIVITIES INDEX 2.1
(Cont'd)

GA-	Dated/	Rcvd	To/From	Description	Subject
037	010990 010590 010290 110289	012290	Kokalis/Cunningham Kokalis-Maley/Olpin Kokalis/Etheredge	Letter Attchd Memo Attachment Attchd Letter	NSC/Pilchuck Memorandum On Gas Line Certification Changes Gas Line Certification Change Questions and Clarifications to Testing Specifications Specialty Gas Certification (13485.4.3 - 13485.4.7)
038	011090	012290	Kokalis/Cunningham	Letter	Modifications to AHU-3C & 4C
039	011190	011790	Kokalis/Cunningham	Letter	Pipe Penetrations into AHU-26
040	011290	011790	Kokalis/Musko	Memo	Declassification of LL-E
041	011690	012290	Kokalis/Cunningham	Letter	Submittal Requirements for Ultrafilter and Mixed Beds
042	011690	012290	Kokalis/Cunningham	Letter	Mixed Bed Polishing Vessels
043	011790	012290	Kokalis/Musko	Letter	Guardian Gas Protection Burn Box Installation
044	010690	011790	File/Nyman	List Attachment	Deficiency List Items, Upper Level E, Fire Sprinkler System Blueprints
045	011990	012990	Kokalis/Musko	Letter	Shutdown Procedure Violations
046	011990	012990	Kokalis/Musko	Letter	D.I. Equipment Conduit and Wiring Installation
047	012590	012990	Kokalis/Cunningham	Letter	Results of a Short Review of the HVAC Load on the Process Chiller
048	011990	021290	Kokalis/Musko	Letter	Shutdown Procedure Violations
049	012390	021290	Kokalis/Shepard	Memo	UL-E DI Steam and Condensate Piping
050	012590	021290	Kokalis/Cunningham	Letter	Results of the Short Review of the HVAC Load on the Process Chiller
051	020190	021290	File	Minutes	Meeting - CDA 1 February 1990
052	020290	021290	Kokalis/Musko	Memo	Intercom System for Wing E
053	020590	021290	Kokalis/Shepard	Memo	Deficiency List Status - 05Feb90
054	020790	021290	Kokalis/Cunningham	Letter	National Semiconductor Memorandum dated Jan. 27, 1990 Compressed Air System

GENERAL ACTIVITIES INDEX 2.1
(Cont'd)

GA-	Dated/	Rcvd	To/From	Description	Subject
055	020790	021290	Kokalis/Cunningham	Letter	CDA System (the following specifications apply...)
056	020790	021290	Kokalis/Cunningham	Letter	SPL Equipment Cooling Water System (ECW)
057	020890	021290	Kokalis/Shepard	Memo	Contractor Quality Control, Independent Testing Agency Requirements
058	020990		Kokalis/Cunningham	Letter	Preliminary DI Enhancement Deficiency List. List will be updated week of Feb. 11
059		022390	Pogue/Cunningham	Memo	Project Review Comments / SPL Booster Pumps
060	021390		File/Kokalis	Minutes	Contractors Coordination Meeting 13February1990
061	021490	022390	Kokalis/Cunningham	Letter	DI Enhancement Deficiency List
062	021990		File/Musko	Minutes	Minutes of NSA/NSC SPL Construction Meeting Date/Time: February 19, 1990/1:00 p.m. Place: NSA SPL Trailer Ft. Meade, MD
063	021990	022390	Kokalis/Cunningham	Letter	Acceptance of CDA Compressor
064	022090		Kokalis/Cunningham	Letter	Relocation of H2 Sensors (NSC Memo 2/15/90)
065	022090	022390	Kokalis/Shepard	Memo	Contractor Quality Control
066	022190	022390	Kokalis/Shepard	Memo	CQC Meeting

GENERAL ACTIVITIES INDEX 2.1
(Cont'd)

GA-	Dated/	Rcvd	To/From	Description	Subject
067	022890		Kokalis/Shepard Maley/Musko	Memo Atchd Letter	LL-E Declassification Comments on "Request for Declassification of Electrical Equipment in Room 1E-01 of Ft. Meade's Special Process Laboratory" by Larry Fleur dated February 16, 1990.
				Atchd Memo atthd drwg	Declassification SPL Lower Level-E Lower Level Floor Plan Area E
			Maley/Fleur	Atchd Request	Declassification Request for Declassification of Electrical Equipment in Room 1E-01 of Ft. Meade's Special Process Laboratory by Larry Fleur February 16, 1990
			Yakubek/Greuling	Atchd Letter	Electrical Declassification of Level II Mechanical Room
068	022890	031290	Kokalis/McFadden	Letter	High-Purity Piping -- Qualifications for Testing
069	030290		File/Musko	Minutes	Minutes of NSA/NSC SPL Construction Meeting Date/Time: February 27, 1990/1:00 p.m. Place: NSA SPL Trailer Ft. Meade, MD
070	030290	031290	Kokalis/McFadden	Letter	Review of Cryogenics Systems
071	030390	031290	Kokalis/Shepard	Memo	Deficiency List Status Attached Deficiency List
072	030490	031290	USACE/Shepard Shepard/Maley	Letter Atchd Memo	SPL First Phase Deficiencies Proposed Corrective Action for Solvent Waste Tank Deficiencies
			Merski/Byce	Atchd Fax Trans	Deficiencies at Solvent Waste Tanks and Vaults
			Byce/Fox Industries Fox	Atchd Quote Atchd Product Info	Solvent Waste Tank/Vaults FX-63P
			Fox	Atchd Product Info	FX-243 & FX-273
			Fox	Atchd Product Info	FX-570 & FX-571
			Merski/Byce	Atchd Memo	Pump Stations and Solvent Waste Tanks/Vaults (TP 13496), Special Process Laboratories, National Security Agency, Ft. Meade, MD, Contract No. DACA31-86-C-0008
073	030690	031290	Kokalis/Shepard	Memo	NSC Letter, 28Feb90, Ref. NSA/Argonne Deficiency List.

GENERAL ACTIVITIES INDEX 2.1
(Cont'd)

GA-	Dated/	Rcvd	To/From	Description	Subject
074	030790	031290	Kokalis/McFadden	Letter	Letter from R. Etheredge of 02Mar90: "House Gas Line Testing"
			Kokalis/Etheredge	Atchd Memo	House Gas Line Testing
			Hewins/Jackman	Atchd Memo	Analytical Testing
			Ramsey/Powers	Atchd Memo	Analytical Testing, Ft. Meade, MD
075	030790	031290	Kokalis/McFadden	Letter	Letter from R. Etheredge of 030390: "Equipment Cooling Water Modifications and Testing"
076	030890	031290	Peek/Shepard	Letter	Potential for Argonne Produced Instructional Training Programs and Maintenance and Operations Plan for Maintenance Systems Utilized to Support the SPL Integrated Circuit Chip and Circuit Board Manufacturing Facility
077	030990	031290	File/Kokalis	Draft Memo	NSC Proposal Review, Special Process Laboratory, NSA, Ft. Meade, MD
078	030990	031090	Kokalis/Shepard	Memo	Suggested Independent Test Laboratory Criteria, Special Process Laboratory, NSA, Ft. Meade, MD
079	030990	031990	Kokalis/Musko	Letter	Electrical Loads on the Emergency Generator
080	031390	031990	Kokalis/McFadden	Letter	1. Inspection of Service Chases 2. Additional Comments on Cryogenic Systems
081	031490	031990	Kokalis/McFadden	Letter	Inspection of Equipment Cooling Water Pressure Testing
082	031490	031990	Kokalis/Shepard	Memo	NSC Summary Report Dated 23Feb90
			Kokalis/Traverso	Atchd Letter	SPL "Punch list"
083	031490	031990	Kokalis/Shepard	Memo	Annotated Deficiency Report, 04May89 through 12Oct90 (actually 04May88 through 12Oct89)
084	031590	031990	Kokalis/Musko	Letter	480 Substation Cubicle Upgrade
085	022790	033090	File/Kokalis	Minutes	Contractors Coordination Meeting 27February1990
086	032090	033090	Kokalis/McFadden	Letter	Review of Cryogenics Systems

GENERAL ACTIVITIES INDEX 2.1
(Cont'd)

GA-	Dated/	Rcvd	To/From	Description	Subject
087	031390	033090	Lewis [NSC]/Wade [Wagner Group]	Letter	Argonne Deficiency List Items
088	031390	033090	File/Kokalis	Minutes	Contractors Coordination Meeting 13March1990
089	031690	033090	Kokalis/McFadden	Letter	Inspection of Equipment Cooling Water Pressure Testing
090	032190	033090	Kokalis/Shepard	Memo Attachments	Duct Testing Procedures same as above
091	032190	033090 051789 081889 081489 081089	Kokalis/Shepard Soule/Shepard Kokalis/Shepard Kokalis/Quinliven Jackman/Jansen	Memo Attchd Memo Attachment Attchd Memo Attchd Memo Attchd Letter Attachment Fax trans Attachment	Exhaust Duct Testing Contractor quality control QCQ Section 01400 NSC Proposed Duct Testing Ductwork Testing Testing of Ductwork AABC Technical Publication Duct Pressure Testing, Leakage Test Kits (United McGill product info) Wagner Group Response to Argonne Deficiency List...attachments cont'd...
092	032790	033090	Kokalis/Musko	Memo	Comments on "Test Report Summary" for the Special Process Laboratory, Volume II, Facility Enhancements, submitted by Wagner Group and dated March 15, 1990.
093	032790	033090	Kokalis/McFadden	Letter	Scrubbers-Low Water Float Switches Attchd: sketches, East and West Scrubbers
094	032890	033090	Kokalis/McFadden	Letter	Process Exhaust Ductwork-Leak Testing and Installation of Drains by National Semiconductor
095	032990	033090	Kokalis/Shepard	Memo	ECW System, Solvent Waste Systems, and High Pressure Laminate Boiler

GENERAL ACTIVITIES INDEX 2.1
(Cont'd)

GA-	Dated/	Rcvd	To/From	Description	Subject
096	032990	033090	Kokalis/Musko	Memo Attachments	Conduit Installation Requirements Specification requirements for installation of conduit in the SPL Building, requirements for headroom in Exit Corridors, Cutting and Patching, Caulking and Sealants, and conduit installation requirements from the specifications for the original building and Enhancement package
097	032990	033090	Kokalis/Shepard	Memo	NSC SPL Enhancement Project Meetings
098	032890	041090	Lewis/Kokalis	Fax trans Attachments	SPL Facility Enhancement Wagner Engineering Preliminary New Catwalk Framing Plan (Architectural Drawings)
99	040290	041090	Kokalis/Musko	Memo	Hydrogen Monitoring System Trouble Alarm
100	040490	041090	Kokalis/Musko	Memo	Hazardous Grounding Requirements
101	040490	041090	Kokalis/Shepard	Memo	Explosion Relief Panels Perimeter Wall LL-E
102	040490	041090	Kokalis/McFadden	Letter	Hot Water Heating Valve in 1L Equipment Room, at ECW Pumping Area
103	040590	041090	Kokalis/Musko	Memo	Electrical Service in LL-E Hazardous Material Storage Areas
104	040590	041090	File/Musko	Minutes	Minutes of NSA/NSC SPL Construction Meeting Date/Time: April 5, 1990/1:00 pm Place: NSA SPL Trailer, Ft. Meade, MD
105	040690	041090	Kokalis/Shepard	Memo	Exhaust Duct Sprinkler Layout
106	041090	041390	Kokalis/Shepard	Memo	SPL Test Report Summary, Volume 11, submitted by Wagner Group, 15MAR90
	041090	041390	Kokalis/Musko	Attachment	Comments on "Test Report Summary" for the Special Process Laboratory, Volume 11, Facility Enhancements, submitted by Wagner Group and dated March 15, 1990

GENERAL ACTIVITIES INDEX 2.1
(Cont'd)

GA-	Dated/	Rcvd	To/From	Description	Subject
	032790		Kokalis/Musko	Attachment	Comments on "Test Report Summary" for the Special Process Laboratory, Volume II, Facility Enhancements, submitted by Wagner Group and dated March 15, 1990
				Attachment	Special Process Laboratory Test Report Summary, Volume II - Facility Enhancements, submitted by Wagner Group, March 15, 1990
107	041090	042490	Kokalis/Musko	Memo	Conduit Labeling Requirements
108	041690	042490	File/Musko	Memo	Minutes of NSA/NSC SPL Construction Meeting Date/Time: April 10, 1990/1:00 pm Place: NSA SPL Trailer, Ft. Meade, MD
109	041790	042490	Kokalis/Cunningham	Memo	Vibration Monitors For SPL Equipment
110	041790	042490	Kokalis/Cunningham	Memo	Pursuant to our conversation, please refer to section 15900-2.12 of the Wagner specification...
111	041790	042490	Kokalis/Cunningham	Memo	Ultrapure Water System Variances Requested by NSC
112	041890	042490	Kokalis/Cunningham	Memo	DI Enhancement Deficiency List
113	041890	042490	Kokalis/Cunningham	Memo	Possible Future Variance Requests on Ultrapure Water System
114	041990	042490	Kokalis/Cunningham	Memo	DI System Deficiencies
115	041990	042490	Kokalis/Cunningham	Memo Atchd memo	Status of Comments From Oct. 12 High-Purity Piping Meeting subject memo
116	040990	041690	Kokalis/McFadden	Letter	NSC transmittal of 09MAR90-"SPL Gas Line Test and Certification" and Horizon "Record of Pressure Testing"
117	041090	041690	Kokalis/McFadden	Letter	ECW Piping in 2E-S03 Service Chase
118	041190	041690	Kokalis/Musko	Memo	Deficiency List for SPL as of April 10, 1990 Attached Deficiency List

GENERAL ACTIVITIES INDEX 2.1
(Cont'd)

GA-	Dated/	Rcvd	To/From	Description	Subject
119	032890	051190	McIntosh/Callahan	Letter	Authorization to begin processing wafers in SPL
120	041090	051190	Kokalis/Shepard	Memo	SPL Test Report Summary, Volume II, submitted By Wagner Group, 15MAR90
	041090	051190	Kokalis/Musko	Atchd Memo	Comments on "Test Report Summary" for the Special Process Laboratory, Volume II, Facility Enhancements, submitted by Wagner Group and dated March 15, 1990, Subject report
				Attached	
121	041390	051190	Kokalis/McFadden	Letter	Installation of New CDA Dryer-Coordination Drawings
122	041790	051190	File	Minutes	Contractors Coordination Meeting 17 April 1990
123	042390	051190	Kokalis/McFadden	Letter	Review of Proposed Catwalk Additions and Revision, Submitted by NSC 18APRIL90 Attached drawings
124	042490	051190	Kokalis/Shepard	Memo	Accommodations of equipment replacements and additions anticipated over the next 10 years
				Attached	purchase description section 4.3.2.2, Process Preparations
125	042490	051190	File	Minutes	Contractors Coordination Meeting 24 April 1990
126	042590	051190	File/Musko	Minutes	Minutes of NSA/NSC SPL Construction Meeting Date/Time: April 24, 1990/1:00 pm Place: NSA SPL Trailer Ft. Meade, MD
127	042690	051190	King/McFadden	Memo	Vacation
128	050190	051190	Kokalis/Musko	Memo	Conduit Installation in LL-E Hazardous Material Storage Rooms REFERENCE:10 Memo to M512 from G. Lowe dated 4/4/90 Subject Electrical Work in the SPL
129	050190	051190	Kokalis/McFadden	Letter	Air Handling Units (AHU-1E through AHU-13E) Cooling Coil Bypass Dampers (Drawings attached)

GENERAL ACTIVITIES INDEX 2.1
(Cont'd)

GA-	Dated/	Rcvd	To/From	Description	Subject
130	050490	051190	Kokalis/Musko	Letter	Circuit Breaker Rating for Available Fault Currents
131	050790	051190	Kokalis/Shepard	Memo	Response to A, C, D Project "Requests For Information" SPL/ NSA, Ft. Meade, MD
132	050190	051490	File	Minutes	Contractor Coordination Meeting, 1 May 1990
133	050790	051490	File/Musko	Minutes	Minutes of NSA/NSC SPL Construction Meeting Date/Time: May 1, 1990/1:00 pm Place: NSA SPL Trailer Ft. Meade, MD
134	050990	051490	Kokalis/Shepard	Memo	NSC To-Do Report Attached List
135	050990	051490	Kokalis/Shepard	Memo	Deficiency Report Attached Deficiency List
136	050990	051490	Kokalis/McFadden	Letter	Vibration Monitors
137	051090	051490	Kokalis/Musko	Letter Atchd Letter Atchd Memo	480 Volt Substation Cubicle Upgrade 480 Substation Cubicle Upgrade Feasibility of using bottom cubicle space in 480 Volt Section of Square D substations
138	051090	051490	Kokalis/Musko	Memo	T Com meeting on May 10, 1990
139	030890	052190	File/Shepard	Transfer order	Excess personal property, in place transfer of trailer ANL #P48558
140	030890	052190	File/Shepard	Transfer order	Excess personal property, in place transfer of trailer ANL #P48558 (Duplicate copy without notes)
141	051590	052190	Kokalis/McFadden	Letter	Review and Comments on Wagner Drwg. A-7A of May 11, 1990, "Existing and Proposed New Catwalk Framing Plan"
142	051690	052190	Mansfield/Musko	Letter	Latent Defect in Power Factor Correction Equipment

GENERAL ACTIVITIES INDEX 2.1
(Cont'd)

GA-	Dated/	Rcvd	To/From	Description	Subject
143	051690	052190	Kokalis/Musko	Letter	Power Factor Correction Equipment Deficiency, Reference: Memo to C. Mansfield from M. Musko, same subject dated May 16, 1990.
144	051790	052190	Kokalis/McFadden	Letter	Compressed Dry Air (CDA)/Nitrogen Switch-Over System (attached drawing)
145	051790	052190	Kokalis/McFadden	Letter	Review of Nitrogen Storage Tank and Local Nitrogen Piping
146	050890	052990	File	Minutes	Contractor Coordination Meeting 8 MAY 1990
147	051590	052990	File	Minutes	Contractor Coordination Meeting 15 MAY 1990
148	052190	052990	File/Musko	Minutes	Minutes of NSA/NSC SPL Construction Meeting Date/Time: May 15, 1990/1:00 pm Place: NSA SPL Trailer Ft. Meade, MD
149	052290	052990	Kokalis/McFadden	Letter	Water Systems in the SPL Building - Revised
150	052290	052990	Kokalis/McFadden	Letter	Compressed Dry Air (CDA)/Nitrogen Switch-over System. Changes Required As Part of Enhancement Contract.
	052390	052990	Kokalis/McFadden	Attchd Letter	Compressed Air / Nitrogen Switch-over System. Completion Items Required As Part of Original Contract.
	052190	052990	Kokalis/McFadden	Attchd Letter	Compressed Air/Nitrogen Switch-over System. Further To Our Letter- same subject-of 17May90 5 sketches attached
151	051690	060490	Maiolo/Sangkavasi	Letter	SPL Punch List
152	052590	060490	Kokalis/McFadden	Memo	Final Review of Cryogenics Storage Systems
153	053190	060490	File/Musko	Minutes	Minutes of NSA/NSC SPL Construction Meeting Date/Time: May 29, 1990/1:00 pm Place: NSA SPL Trailer Ft. Meade, MD

GENERAL ACTIVITIES INDEX 2.1
(Cont'd)

CA-	Dated/	Rcvd	To/From	Description	Subject
154	053190	060490	Fratus/Maley	Letter	Ductwork Sprinkler Plans for SPL, Level 1, Area E
155	052990	062690	File	Minutes	Contractor Coordination Meeting 29 May 1990
156	060490	062690	Kokalis/Shepard	Memo	Low-Temperature Chill Water Leak
157	060490	062690	Kokalis/Shepard	Memo	Filters for AHU-12E and 13E
158	060490	062690	Kokalis/Shepard	Memo	Halogenated/Non-Halogenated Waste Mains
159	060490	062690	Kokalis/Shepard	Memo	Duct Exiting Makeup Air Unit-3
160	060490	062690	Kokalis/McFadden	Letter	Final Review of Cryogenics Storage Systems
161	060890	062690	Kokalis/Shepard	Memo	Area E (1L-E) Class 10,000 Clean Room Corridors
162	061190	062690	Kokalis/Shepard	Memo	Nitrogen Backup for CDA
163	061190	062690	File/Musko	Minutes	Minutes of NSA/NSC SPL Construction Meeting Date/Time: June 5, 1990/1:00 pm Place: NSA SPL Trailer Ft. Meade, MD
164	061290	062690	File	Minutes	Contractor Coordination Meeting 12 JUNE 1990
165	061390	062690	Kokalis/Musko	Letter	Fire Alarm Junction Box in Corridor 2D-01
166	061490	062690	Kokalis/McFadden	Letter	Leak in Equipment Cooling Water (ECW) Piping
167	061890	062690	Kokalis/Shepard	Memo	ANL Deficiency List Review (14JUN90)
168	062090	062690	Kokalis/Musko	Memo	CDRL Item BO15 For SPL
169	061890	062690	Kokalis/Shepard	Memo	Deficiency Report Attached report
170	062090	062690	File/NSC (Savage)	Minutes	History No. 900619-01 National Semiconductor Corporation SPL Facilities Quality Control Audit CRSS Job #11687.00

GENERAL ACTIVITIES INDEX 2.1
(Cont'd)

GA-	Dated/	Rcvd	To/From	Description	Subject
171	062190	062690	Kokalis/Shepard	Memo	Swagelock Fittings in Cryogenic Storage Area
172	062190	062690	Kokalis/Shepard	Memo	Repairs for Doors and Hardware
173	062290	071690	Kokalis/Shepard	Memo	NSA Quality Assurance Analysis of SPL Clean rooms
	051690		Chief, R14/Slater	Atchd Memo Atchd Data	Laminar Air Flow in the Special Processing Laboratory Air Flow Measurements
174	070390	071690	Shepard/Cunningham	Fax Trans	"Summary of Situation"
175	070390	071690	File	Minutes	Contractor Coordination Meeting 3 July 1990
176	070390	071690	File	Minutes	Contractor Coordination Meeting 3 July 1990 (not a duplicate of above)
177	070590	071690	Kokalis/Shepard	Letter	SPL Package 5 Deficiency Report Summary
178	070990	071690	Kokalis/Shepard	Memo	DI Water Mixed Bed Polisher
179	071090	071690	Kokalis/Shepard	Memo	LEPCO Installation
180	061990	071690	File	Minutes	Contractor Coordination Meeting 19 June 1990
181	070590	072390	Moon/Bell	Letter	Removal of items from ANL punch list and deficiency list
182	070990	072390	Kokalis/Shepard	Memo	NSA/NSC PSR Meeting 28Jun90
183	071890	072390	Kokalis/Shepard	Memo	Process Equipment Installation
184	071890	072390	Kokalis/Shepard	Memo Atchd Specs	Process Equipment Installation Specification NSC Process Equipment Installation Specifications
185	071890	072390	File/Musko	Minutes	SPL Production Problems, L5 Tiger Team Meeting, ANL Trailer, 10:00 A.M.
186	071390	072590	File	Minutes	History No. 900710-01 National Semiconductor Corporation SPL Facilities Quality Control Audit CRSS Job No. 11687.00, July 10, 1990

GENERAL ACTIVITIES INDEX 2.1
(Cont'd)

GA-	Dated/	Rcvd	To/From	Description	Subject
187	072090	082390	File	Minutes	History No. 900717-01 National Semiconductor Corporation, SPL Facilities Quality Control Audit CRSS Job No. 11687-00
188	072490	082390	Kokalis/Shepard	Memo	Deficiency Report, Special Process Laboratory, National Security Agency, Ft. Meade, Maryland
189	072790	082390	File	Minutes	Contractor Coordination Meeting 27July1990
190	073090	082390	Kokalis/Shepard	Memo	CRSS Letter Dated 27July90 (Regarding Unused Equipment Supports Deficiencies Section)
191	073090	082390	Kokalis/Shepard	Memo	CRSS Letter Dated 27Jul90 (Regarding Process Installation Deficiencies Section)
192	073090	082390	Kokalis/Shepard	Memo	CRSS Letter Dated 27Jul90 (Regarding Damages to SPL Facility at Loading Dock 3B)
193	073090	082390	Kokalis/Shepard	Memo	CRSS Letter Dated 27Jul90 (Regarding Item #1155, House Vacuum Deficiency)
194	073090	082390	Kokalis/Shepard	Memo	CRSS Letter Dated 27Jul90 (Regarding Item #38 Duct, Testing Deficiency)
195	073090	082390	Kokalis/Shepard	Memo	CRSS Letter Dated 27Jul90 (Regarding Fire Protection Deficiencies Section)
196	073090	082390	Kokalis/Shepard	Memo	SPL Acquisition Design Statement of Work
197	073090	082390	Kokalis/Shepard	Memo	SPL Safety Deficiency Resolutions
198		082390	Shepard/McFadden	Memo	Package 5 - Make-up Air Units GRU-1 and GRU-2
199		082390	Shepard/McFadden	Memo	Air and Water Balance
200	080190	082390	Kokalis/Musko	Letter	Unauthorized Shutdown of Electrical Power Reference: Memo from B. Frist to B. Youden dated 27Jul90, same subject as above (attached)

GENERAL ACTIVITIES INDEX 2.1
(Cont'd)

GA-	Dated/	Rcvd	To/From	Description	Subject
201	080190	082390	Kokalis/Shepard	Memo	Wagner Deviations (Amended 03Aug90 - ANL/LTS)
202	080290	082390	Kokalis/Shepard	Memo	Oxygen Purifier (Redundancy)
203	080790	082390	Kokalis/Musko	Memo	Acceptance of Defective or Non-Conforming Work
204	080790	082390	File	Minutes	Contractor Coordination Meeting 7Aug90
205	080890	082390	Kokalis/Shepard	Memo	Clean Room Certification
206	080890	082390	File/McFadden	Minutes	Minutes of NSA/NSC SPL Construction Meeting Date/Time: 07Aug90 Place: NSA SPL Trailer, Ft. Meade, MD
207	080890	082390	Kokalis/Shepard	Memo	Air/Water Balance
208	081390	082390	McFadden/Stevens (Linde, Union Carbide)	Fax trans	At your request and as a followup to my July 19, 1990 letter, presented below is general information and estimated pricing for Linde's nitrogen generating plant that you had expressed interest in....
209	081490	082390	File	Minutes	Contractor Coordination Meeting 14August1990
210	081590	082390	Kokalis/McFadden	Letter	Scrubbers-Traps for Scrubbers on West Side of Building (Attached drawing)
211	081590	082390	File/McFadden	Minutes	Minutes of NSA/NSC SPL Construction Meeting Date/Time: 14AUG90 Place: NSA SPL Trailer, Ft. Meade, MD
212	081790	082390	File	Minutes	History No. 900814-01 National Semiconductor Corporation, SPL Facilities Quality Control Audit CRSS Job No. 11687.00
213	082090	082390	Kokalis/Shepard	Memo	Deflecting Plenum Diffusers
214	082090	082390	Kokalis/Musko	Letter	Honeywell Computer in SPL Control Room
215	082190	092490	File	Minutes	Contractor Coordination Meeting 21August1990

GENERAL ACTIVITIES INDEX 2.1
(Cont'd)

GA-	Dated/	Rcvd	To/From	Description	Subject
216	082290	092490	Kokalis/Shepard	Memo	Smoke Wall Penetrations (Ductwork)
217	082490	092490	Kokalis/McFadden	Letter	Package 5 - Makeup Air Units GRU-1 and GRU-2. Latent Deficiency
218	082790	092490	File/Musko	Minutes	Minutes of NSA/NSC SPL Construction Meeting Date/Time: August 21, 1990/1:00 p.m. Place: NSA SPL Trailer, Ft. Meade, MD
219	082790	092490	Shepard/McFadden	Memo	Package 5 - Latent Deficiencies
220	082990	092490	Kokalis/McFadden	Letter	D.I. Water System - Installation of Automatic Backpressure Control Valves in HQ and LQ Distribution Systems
				Atchd Spec	15404-4; Fort Meade Special Process Laboratories
			Kokalis/Cunningham	Atchd Letter	October 13 D. I. Water Meeting (Dated 17Oct89)
221	082990	092490	File/McFadden	Minutes	Minutes of NSA/NSC SPL Construction Meeting Date/Time: 28AUG90. 1300 Hrs. Place: NSA SPL Trailer, Ft. Meade, MD
222	083090	092490	Kokalis/Musko	Letter	SPL Emergency Power System
223		092490	Shepard/McFadden	Memo	Package 5 - Makeup Air Units GRU-1 and GRU-2 (not dated)
224	090490	092490	File	Minutes	Contractor Coordination Meeting 4September1990
225	090490	092490	File	Minutes	Date/Time: September 04, 1990 / 1:00 p.m. Place: NSA SPL Trailer, Ft. Meade, MD
226	091090	092490	Kokalis/Musko	Memo	Latent Defect SPL Wing E Electrical Panelboard 3L16
227	091190	092490	Harrison/Shepard	Memo	Recent Changes in NSA's Implementation of ANL's Technical Assistance Activities
228	091990	092490	File	Minutes	Contractor Coordination Meeting 11September1990
229	091390	092490	Kokalis/Shepard	Memo	Liquid Nitrogen (Cryogenics) System

GENERAL ACTIVITIES INDEX 2.1
(Cont'd)

GA-	Dated/	Rcvd	To/From	Description	Subject
				Atchd Specs	Install complete cryogenic storage and gas delivery systems for nitrogen, oxygen, argon, and hydrogen. The contractor shall provide nitrogen service for the entire SPL building. Areas A, C, and D require nitrogen service by November 1989
				Atchd Dwg.	P & I Schematic for Nitrogen (From HDR Sheet M6-22)
				Atchd Specs	NSC/NSA-SPL Section 2.1.3 Requirements For The Cryogenic Equipment (Ref 4.3.3PD)
			Shepard/McFadden	Atchd Memo	Liquid Nitrogen - "Keep Full" Gas Disengager (Dated 12SEP90)
230	091790	092490	Kokalis/Shepard	Memo	Mipolan Flooring (Package 2 Deficiency Report Summary, Item #17)
231	091890	092490	Kokalis/Musko	Letter	Review of CRSS Recommendations for Package 2
232	091890	092490	Kokalis/Shepard	Memo	Seismic Restraints (Sway Bracing) on Sprinkler Systems
				Atchd Specs	13-20-24 Standard for the Installation of Sprinkler Systems
233	092090	092490	Kokalis/McFadden	Letter	Liquid Nitrogen System Walk-Through and Review
234	092090	092490	Kokalis/Shepard	Memo	DI Water Installation
235	092490	092490	File/Miller	Memo	Attached Photographs: Lower Level C, D, & E Deficiencies
				Atchd	39 Photographs
236	092890	100490	Shepard/Soisson	Memo	Special Process Laboratory (SPL:) Tiger Team Report - Information Memorandum Attached: Special Process Laboratory Tiger Team Report, Dated 27 September 1990
237	071790	101090	File	Minutes	Contractor Coordination Meeting 17July1990
238	092590	101090	Kokalis/Musko	Letter	Comments on Tate Access Floor Testing Report
239	092690	101090	Kokalis/Shepard	Memo	Catwalk Installations

GENERAL ACTIVITIES INDEX 2.1
(Cont'd)

GA-	Dated/	Rcvd	To/From	Description	Subject
240	092690	101090	Kokalis/Shepard	Memo	DI Water Mixed Beds
241	092690	101090	Kokalis/Shepard	Memo	DI Water Heat Exchanger
242	100190	101090	Kokalis/Shepard	Memo Attached	Deficiency Report Final Deficiency Report
243	100290	101090	Kokalis/Shepard	Memo	Re-Entrant Speakers for Fire Detection and Alarm System
244	100290	101090	Kokalis/Shepard	Memo	Public Address Speakers
245	102290	102290	Kokalis/Shepard	Memo	Tiger Team Report, Dated 28SEP90 (We have completed a cursory review on the NSA tiger team report and would offer the following suggestions;...)
246	101890	102290	Kokalis/Shepard	Memo	NHSW and HSW Drain Systems
247	091090		Owens [NSC] / Savage [CRSS]	Letter Attached	SPL Facility Quality Control Audit Monthly Report - August 1990 Subject report
248	102290	110190	Kokalis/Shepard	Memo	Tiger Team Report, Dated 28SEP90
249	102390	110190	Kokalis/Shepard	Memo	Make-Up Units 1, 2, and 3 (Attachments: A, C, D Contract; NSC As-Built Flow diagram)
250	102690	110190	Kokalis/Shepard	Memo	Make-Up Units 1, 2, and 3 (Attachments: Original Eng Drwgs, As Built Drawing, Seneca Balance, Inc., Diffuser and Grille Test Sheets)
251	110290	112190	Kokalis/Shepard	Memo	As-Built Drawings
252	112990	112690	Shepard/Harrison	Memo Attached	National Semiconductor Corporation Warranty Items for the SPL Facility Enhancements List
253	112790	112990	Harrison/Shepard	Memo Attached	Draft Response From National Semiconductor Corporation (NSC) to National Security Agency (David Kokalis, COR) in Regards to "NSC Proposal Items Remaining" Subject report

* Documents listed by date of receipt

2.2 Project Activities File

101/102

NSA / SPL PROJECT ACTIVITIES
Records of Meetings with R Group Staff 2.2

SPLPA-	Dated/Rcvd	To/From	Description	Subject
001	053190	Harrison/Musko	Telecon Record	Mike said that Linda had wanted only one ANL person to attend the "weekly construction meeting"....
002	082290/082390	Harrison/Shepard	Memo	ANL Job Duties at the SPL (Per Linda Soule, NSA,R105,COR) Attached: 1) Subject list "Argonne Job Duties" 2) 082290 / 082390 > Harrison / Musko > Memo> Argonne SPL Job Duties Defined by NSA
003	102390	File/Harrison	Telecon Record	NSA individual to whom ANL should transmit its QA Records File for the SPL Project

2.3 Project Administration File

PROJECT ADMINISTRATION FILE 2.3
NSA Informal Reviews

PAF-	Dated	To/From	Description	Subject
001	120189	File/Harrison	Memo	Custodial Change of QA Files
002	010290	File/Miller	Memo	Reformatting Quality Assurance Files
003	031990	File/Harrison	Memo	Discontinuing Use of Categories 3.1 and 3.2

2.4 Review of Request for Information (RFI) Documents

REVIEW OF REQUEST FOR INFORMATION (RFI) DOCUMENTS 2.4

RFI-	Dated	Rcvd	To/From	Description	Subject
001	052489		Soule/Musko	Memo	Review of RFIs received to date
002	061389		Soule/Musko	Memo	Review of RFIs received to date (REF.: memo from Musko to Soule dated 5/24/89, same subject as above)
003	062989		Soule/Musko	Memo	Review of RFIs received to date (REF.: memo from Musko to Soule dated 6/27/89, same subject as above)
004	070689		Soule/Musko	Memo	Review of RFIs received to date (REF.: memo from Musko to Soule dated 6/29/89, same subject as above)
005	072689		Kokalis/Musko	Memo	Review of RFIs received to date (REF.: memo from Musko to Kokalis dated 7/21/89, same subject as above)
006	081089		Kokalis/Musko	Memo	Review of RFIs received to date (REF.: memo from M. Musko to D. Kokalis dated 7-26-89, same subject as above)
007	100489		Kokalis/Musko	Memo	Review of RFIs received to date (REF.: memo from M. Musko dated 8-10-89, same subject as above)

2.5 Monthly Reports

MONTHLY REPORTS 2.5

MR-	Dated	Rcvd	To/From	Description	Subject
001	071089		Harrison/Shepard	Memo	ANL Monthly Report for 06/89, Special Process Laboratory, National Security Agency, Ft. Meade, MD
002	080489	080489	Harrison/Shepard	Memo	ANL Monthly Report for 07/89, Special Process Laboratory, National Security Agency, Ft. Meade, MD
003	101189	101689	Harrison/Shepard	Memo	ANL Monthly Report for 9/89 (September), Special Process Laboratory, National Security Agency, Ft. Meade, MD
004	120789	120789	Harrison/Shepard	Memo	ANL Monthly Report for 10/89, Special Process Laboratory, National Security Agency, Ft. Meade, MD

2.6 Weekly Reports

WEEKLY REPORTS 2.6

WR-	Dated	Rcvd	To/From	Description	Subject
001	050689		Soule/Shepard	Memo	Weekly Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
002	061289		Soule/Shepard	Memo	Weekly Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
003	061289		Soule/Shepard	Memo	Marshall Group Schedule Dated 04APR89
004	061289		Soule/Shepard	Memo	Weekly Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD; Corrected Copy
005	061489		Kokalis/Shepard	Memo	Weekly Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
006	061689		Soule/Musko	Memo	Weekly Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
007	062989			Memo	Minutes of NSA/NSC Weekly Construction Meeting; Date: June 27, 1989
008	061689		Soule/Musko	Memo	Weekly Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
009	063089		Soule/Musko	Memo	Weekly Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
010	070589			Memo	Minutes of NSA/NSC Weekly Construction Meeting; Date: July 5, 1989
011	070789		Soule/Musko	Memo	Weekly Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
012	071689	072389	Kokalis/Shepard	Memo	Weekly Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
013	071989			Memo	Minutes of NSA/NSC Weekly Construction Meeting; Date: July 18, 1989
014	072189		Kokalis/Musko	Memo	Weekly Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
015	072889		Kokalis/Shepard	Memo	Weekly Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
016	080489		Kokalis/Musko	Memo	Weekly Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
017	081889		Kokalis/Musko	Memo	Weekly Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
018	082589		Kokalis/Shepard	Memo	Weekly Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD

WEEKLY REPORTS 2.6
(Cont'd)

WR-	Dated	Rcvd	To/From	Description	Subject
019	090189		Kokalis/Musko	Memo	Weekly Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
020	091089		Kokalis/Shepard	Memo	Weekly Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
021	091589		Kokalis/Shepard	Memo	Weekly Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
022	092289		Kokalis/Shepard	Memo	Weekly Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
023	092989		Kokalis/Musko	Memo	Weekly Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
024	100689	101689	Kokalis/Shepard	Memo	Weekly Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
025	101389	101689	Kokalis/Musko	Memo	Weekly Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
026	102789		Kokalis/Shepard	Memo	Weekly Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
027	111089		Kokalis/Shepard	Memo	Weekly Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
028	111789		Kokalis/Musko	Memo	Weekly Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
029	120489		Kokalis/Musko	Memo	Weekly Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
030	011690		Kokalis/Shepard	Memo	Weekly Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
031	040690	041090	Kokalis/Musko	Memo	Weekly Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
032	041790	042490	Kokalis/Musko	Memo	Weekly Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD

2.7 Daily Reports

DAILY REPORTS 2.7

DR-	Dated	Rcvd	To/From	Description	Subject
001	061589	062089	Soule/Shepard	Memo	Daily Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
002	061589		Soule/Shepard	Memo	Daily Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
003	062989		Musko	Project Notes	As-Built Drawings
004	070389		Soule	Memo	Daily Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
005	071489		Kokalis/Shepard	Memo	Daily Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
006	072889		Kokalis/Shepard	Memo	Daily Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
007	080789		Kokalis/Shepard	Memo	Daily Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
008	081589		Kokalis/Shepard	Memo	Daily Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
009	082489		Kokalis/Shepard	Memo	Daily Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
010	092689		Kokalis/Musko	Memo	Daily Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
011	082989		Kokalis/Shepard	Memo	Daily Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
012	100489		Kokalis/Shepard	Memo	Daily Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
013	101289	101689	Kokalis/Shepard	Memo	Daily Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
014	101689		Kokalis/Shepard	Memo	Daily Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
015	110189		Kokalis/Shepard	Memo	Daily Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
016	110389		Kokalis/Shepard	Memo	Daily Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
017	110789		Kokalis/Shepard	Memo	Daily Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
018	110989		Kokalis/Shepard	Memo	Daily Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD

DAILY REPORTS 2.7
(Cont'd)

DR-	Dated	Rcvd	To/From	Description	Subject
019	010390		Kokalis/Musko	Memo	Daily Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
020	013190	021290	Kokalis/Musko	Memo	Daily Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
021	031490	033090	Kokalis/Shepard	Memo	Daily Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
022	032090	033090	Kokalis/Shepard	Memo	Daily Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
023	032090	033090	Kokalis/Shepard	Memo	Daily Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
024	032890	033090	Kokalis/Shepard	Memo	Daily Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
025	033090	033090	Kokalis/Shepard	Memo	Daily Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD
026	062790	071690	Kokalis/Shepard	Memo	Daily Report, Special Process Laboratory, National Security Agency, Ft. Meade, MD

**2.8 Support File for Formal Review of NSA's
Operations and Maintenance Concept for the SPL
Building**

125/126

SUPPORT FILE 2.8
Documents Pertaining to the NSA-Sponsored Formal Peer Review of NSA's Operations and Maintenance Concept for the SPL Building

OMS-	Dated/Rcvd	To/From	Description	Subject
001	0190	Panelists/Harrison	Report	Proposed Panelists' Information Package for the Peer Review of the SPL Operations and Maintenance Plan
002	012390	File/Harrison	Memo	Telephone Conference Between David Kokalis, Wyman Harrison, and Herbert Stevens, January 19, 1990
003	012990	File/Harrison	Memo	Scoping The Review Of The Operations and Maintenance Concept For The SPL Building (Also filed as RNSAOO-OM2)
	011290/011490	Harrison/Kokalis	Attachment	Request For Review of NSA's Operations and Maintenance Concept For The SPL Building
	012390	File/Harrison	Attachment	Telephone Conference between David Kokalis, Wyman Harrison, and Herbert Stevens - January 19, 1990
			Attachment	O&M Objectives (2 pgs) "Scoping The Review" and "Steps in the Review"
004	013189	Jones/Harrison	Letter	"We are very pleased to have you and your associates..."
005	020590	Liarakos/Harrison	Letter	"Enclosed you will find..." (prelude to RNSAOO-OM2)
006	020590	Morgan/Harrison	Letter	"Enclosed you will find..." (prelude to RNSAOO-OM2)
007	020590	Jones/Harrison	Letter	"Enclosed you will find..." (prelude to RNSAOO-OM2)
008	020690/021290	Kokalis/Shepard	Memo	Review of the Operations and Maintenance Concepts for the Special Process Laboratory (SPL) at Ft. Meade, MD (List of participants)
009	021990	Jones/Harrison	Letter	General discussion of various subjects relevant to O&M review report. (Informal letter with attachments)
010		File/Stevens	Drawings	SPL Building Construction Specification Drawings
011	033090	Stouder/Harrison	Letter	Expression of appreciation for efforts of Motorola panelists
012	040590	File/Miller	Memo/Diskette	Closing of O&M Quality Assurance Files (RNSA-OM)

2.9 Basic SPL Specifications and Preliminary Design Calculations

BASIC SPL SPECIFICATIONS AND PRELIMINARY DESIGN CALCULATIONS 2.9

SD-	Date	Description
001	061485	U. S. Army Corps of Engineers, Baltimore District, Construction Specifications, Special Process Laboratories, Fort George G. Meade, Maryland, Volume I (Divisions 1 - 8) [A/E Firm: HDR/Wagner Group]
002	061485	U. S. Army Corps of Engineers, Baltimore District, Construction Specifications, Special Process Laboratories, Fort George G. Meade, Maryland, Volume II (Divisions 9 - 14) [A/E Firm: HDR/Wagner Group]
003	061485	U. S. Army Corps of Engineers, Baltimore District, Construction Specifications, Special Process Laboratories, Fort George G. Meade, Maryland, Volume III (Divisions 15) [A/E Firm: HDR/Wagner Group]
004	061485	U. S. Army Corps of Engineers, Baltimore District, Construction Specifications, Special Process Laboratories, Fort George G. Meade, Maryland, Volume IV & V (Divisions 16, and Misc. Schedules) [A/E Firm: HDR/Wagner Group]
005	051587	Fit-up for Special Process Laboratories, Fort George G. Meade, Maryland, Budget Estimate Update for Equipment Fit-up [A/E Firm: HDR/Wagner Group]
006	0387	Fit-up for Special Process Laboratories, Fort George G. Meade, Maryland, Contract Documents [A/E Firm: HDR/Wagner Group]
007	0387	Fit-up for Special Process Laboratories, Fort George G. Meade, Maryland, Contract Documents Volume II [A/E Firm: HDR/Wagner Group]
008	0387	Fit-up for Special Process Laboratories, Fort George G. Meade, Maryland, Contract Documents Volume III [A/E Firm: HDR/Wagner Group]
009	0387	Fit-up for Special Process Laboratories, Fort George G. Meade, Maryland, Contract Documents Volume IV [A/E Firm: HDR/Wagner Group]
010	0387	Fit-up for Special Process Laboratories, Fort George G. Meade, Maryland, Contract Documents Volume V [A/E Firm: HDR/Wagner Group]
011	051088	(Edition) Special Process Laboratories Weekly Activity Report for Phase Two Use (Produced by Lawrence Livermore National Laboratory or Personnel on a Weekly Basis)
012	011188	Special Process Laboratory (SPL) Acquisition Purchase Description R1.001
013	011188	Special Process Laboratory (SPL) Transfer Statement of Work (NSA)
014	031888	National Semiconductor Proposal, Volume 1 (Technical) [Produced by National Semiconductor Corporation]
015		National Security Agency, Special Process Laboratory, Fort Meade, Maryland, Volume V, Base Cost
016	061028	Special Process Laboratory (SPL) 1.2 Micron Acquisition Design Statement of Work - Final (NSA)

*Project-Related Documents -
Basic SPL Specifications and
Preliminary Design-Calculations*

BASIC SPL SPECIFICATIONS AND PRELIMINARY DESIGN CALCULATIONS 2.9
(Cont'd)

SD-	Date	Description
017	080488	Special Process Laboratory (SPL) Acquisition Purchase Description (NSA)
018	0888	Department of Defense, Special Process Laboratories, Fit-up for Building Areas A, C, D, Fort George G. Meade, Maryland, Volume I [A/E Firm: HDR/Wagner Group]
019	0888	Department of Defense, Special Process Laboratories, Fit-up for Building Areas A, C, D, Fort George G. Meade, Maryland, Volume II [A/E Firm: HDR/Wagner Group]
020	090988	Maryland Procurement Office Notice of Award (National Semiconductor Corporation) - (Acceptance of NS Proposal Dated 1 September 1988) [NSA]
021	101288	75% Design Calculations For Facility Enhancements to Special Process Laboratories (First Submission by National Semiconductor) [A/E Firm: Wagner Group]
022	102688	95% Design Calculations For Facility Enhancement to Special Process Laboratories (Second Submission by National Semiconductor) [A/E Firm: Wagner Group]
023	103188	95% Interface Control Document, National Semiconductor, Special Process Laboratory, Fort G. Meade, Maryland, Facility Enhancement, Draft - Final Step 1 [A/E Firm: Wagner Group]
024	103188	95% Pre-Purchase Specifications, National Semiconductor, Special Process Laboratory, Fort G. Meade, Maryland, Facility Enhancements [A/E Firm: Wagner Group]
025	103188	95% Construction Specifications, National Semiconductor, Special Process Laboratory, Fort G. Meade, Maryland, Facility Enhancements, Package 1 - Removal October 1988 Volume I [A/E Firm: Wagner Group]
026	103188	95% Construction Specifications, National Semiconductor, Special Process Laboratory, Fort G. Meade, Maryland, Facility Enhancements, Package 2 - Removal October 1988 Volume II [A/E Firm: Wagner Group]
027	120688	LEPCO Incorporated, Finalized Proposal for National Semiconductor, Fort Meade MEBES Facility (LEPCO, Inc.)
028	111488	Interface Control Document, National Semiconductor, Special Process Laboratory, Fort G. Meade, Maryland, Facility Enhancement, Draft - Final Step 1 - Revised (Originally Submitted 10-31-88) [A/E Firm: Wagner Group]
029	1288	Construction Specifications, National Semiconductor, Special Process Laboratory, Fort G. Meade, Maryland, Facility Enhancements, Package 2 - Enhancements, Volume II (Submission) [A/E Firm: Wagner Group]
030	1288	Construction Specifications, National Semiconductor, Special Process Laboratory, Fort G. Meade, Maryland, Deionized Water Enhancements, Package 3 - Enhancements, Volume III (Submission) [A/E Firm: Wagner Group]
031	1288	Construction Specifications, National Semiconductor, Special Process Laboratory, Fort G. Meade, Maryland, Package 4 - Cryogenic Systems, , Volume IV (Submission) [A/E Firm: Wagner Group]

*Project-Related Documents -
Basic SPL Specifications and
Preliminary Design Calculations*

13/132

BASIC SPL SPECIFICATIONS AND PRELIMINARY DESIGN CALCULATIONS 2.9
(Cont'd)

SD-	Date	Description
032	051989	Construction Specifications, National Semiconductor, Special Process Laboratory, Fort G. Meade, Maryland, Package 5 - Environmental Protection Systems, , Volume V (Submission) [A/E Firm: Wagner Group]
033	080889	National Semiconductor, Special Process Laboratory, Process Equipment Installation Specification - Issued For Construction (These specifications were used by Noone Electric Company for Installation Purposes) [A/E Firm: Wagner Group]
034	091389	National Semiconductor, Special Process Laboratory, Process Equipment Installation Specification - Issued for Construction (These Specifications Were Used By Pilchuck Mechanical
035	091389	National Semiconductor, Special Process Laboratory, Process Equipment Installation Specification - Issued for Construction (These Specifications Were Used By Pilchuck Mechanical
036	050390	National Semiconductor Equipment - Test Plan, Facility Installation, Special Process Laboratory
037	022690	NSC/Wagner Response to Issues Raised by Argonne National Laboratory (Volume 1)
038	031590	NSC/Wagner Response to Issues Raised by Argonne National Laboratory (Volume 2)

2.10 Argonne Proposals and NSA Contract Letters

ARGONNE PROPOSALS AND NSA CONTRACT LETTERS 2.10

CD-	Proposal No.	Date	To/From	Description	Subject
001	P-88120	063088	USACE/BD / Harrison	Proposal	Performance Assessment of Piping System to Support Semiconductor Manufacturing for the National Security Agency
002	P-88120	082488	Dept. of Army F&A Office / Dalton	Letter	"This letter confirms the U. S. Department of Energy's (DOE's) acceptance of the subject MIPR [E8588ZN75] for work to be performed by the Argonne National Laboratory (ANL)."
003	P-88120,(Rev. 1)	092088	USACE/BD / Harrison	Proposal	Performance Assessment of Systems to Support Semiconductor Manufacturing for the National Security Agency
004	P-88120, (Rev. 1)	093088	Commander, F&A / Dalton	Letter	"This letter confirms the U. S. Department of Energy's (DOE) acceptance of the subject MIPR [E8588ZN75, Amendment 1)] for work to be performed by the Argonne National Laboratory (ANL)."
005	P-89033	010489	USDoD, NSA / Harrison	Proposal	Performance Assessment of Systems to Support Semiconductor Manufacturing for the National Security Agency
006	P-89033	032289	Rogan/Dalton		"This letter confirms the U. S. Department of Energy's (DOE) acceptance of the subject agreement [#N-2079-89) for work to be performed by the Argonne National Laboratory (ANL)."
007	P-89033, (Rev. 1)	061989	USDoD, NSA / Harrison	Proposal	Performance Assessment of Systems to Support Semiconductor Manufacturing for the National Security Agency
008	P-89033, (Rev. 1)	101289	Walsh/Rogan	Letter	"Reference is made to NSA/CSS letter, Serial: N-2079-89, dated 3 March 1989 which established MOD 7052.89...for FY1989 consultation support in the assessment of major facility systems at Fort Meade, Maryland, by the Argonne National Laboratory. Please consider this letter as a formal purchase request...to continue the effort..."
009	P-89033	091190	Combs/Harrison	Memo	Revised Closeout Schedule and Budget for Work Conducted Under Proposal P-89033, "Performance Assessment of Systems to Support Semiconductor Manufacturing for the National Security Agency"

ARGONNE PROPOSALS AND NSA CONTRACT LETTERS 2.10

CD-	Proposal No.	Date	To/From	Description	Subject
010	P-89033	090790	Walsh/Rogan	Letter	"Reference is made to NSA/CSS letter, Serial: N-2079-89, dated 12 October 1989 which established MOD 7000.90...for FY1989 consultation support in the assessment of major facility systems at Fort Meade, Maryland, by the Argonne National Laboratory. Please consider this letter as an amendment to the referenced purchase request..."

END

DATE FILMED

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