QUALITY ASSURANCE

FOR

AISC

NUCLEAR

QUALITY CERTIFICATION PROGRAM

JULY, 1980

Charles Peshek, Jr.
Director Quality Certification
American Institute of Steel Construction
(312) 670-2400

American Institute of Steel Constr.
Wrigley Building
400 North Michigan Avenue
Chicago, Illinois 60611
8th Floor



UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON, D. C. 20555

AUG 1 2 1980

Mr. Charles Peshek, Jr.
Director, Quality Certification
American Institute of Steel
Construction, Inc.
400 North Michigan Avenue
Chicago, IL 60611

Dear Mr. Peshek:

SUBJECT: NRC ACCEPTANCE OF AISC TOPICAL REPORT (FCTPN-78)

We have evaluated your revised topical report, "Quality Assurance for AISC Nuclear Quality Certification Program," submitted with your letter of May 3, 1979 and revised by your letter of December 4, 1979. The topical report describes the quality assurance program established for the nuclear act ities of the American Institute of Steel Construction, Inc. (AISC) and for the inspection-evaluation activities of its contractor, ABS Worldwide Technical Services, Inc. (ABSTECH). These activities involve 1) the inspection-evaluation of quality assurance programs for structural steel fabricating plants and 2) the issuance of a register identifying such plants that have a quality assurance program meeting the requirements of Appendix B to Title 10 Code of Federal Regulations Part 50. These activities are performed to reduce or eliminate redundant source evaluation surveys of structural steel fabricating plants by purchasing organizations.

We have reviewed your topical report which includes information requested in our letter of November 7, 1978 and discussed at our meetings of June 26, 1978, August 30, 1978, January 4, 1979, April 11, 1979, April 10, 1980, and July 10, 1980 and find that it is responsive to the NRC concerns, describes a quality assurance program that meets the applicable criteria of Appendix B to 10 CFR Part 50, and is therefore acceptable. This letter authorizes the use of the AISC Nuclear Quality Certification Program for the activities as described above and in the introduction to the topical report. It should be noted that this approval does not relieve the purchaser of his responsibility to provide in-process and final inspections of the purchased product.

The AISC Nuclear Quality Certification Program described in the topical report will be subject to inspection by the NRC's Office of Inspection and Enforcement. Any noncompliance or unresolved items identified during NRC inspections will require agreed-upon resolution for the system to remain acceptable. Also, should regulatory criteria or regulations change such that our conclusions about this topical report are invalidated, we will notify you. You will be given the opportunity to revise and resubmit it should you so desire. Finally, programmatic changes by AISC or ABSTECH to this topical report are to be submitted to

AUG 1 2 1980

NRC for review prior to implementation, and organizational changes are to be submitted no later than 30 days after announcement.

Please enclose a copy of this letter in each report, date the report July 1980, and provide 40 copies to the NRC.

Should you have any questions regarding our review or if we can provide assistance, please contact Mr. Jack Spraul on (301) 492-7741.

Sincerely,

Walter P. Haass, Chief Quality Assurance Branch Division of Engineering

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AISC Register Sample

28 to 30

Appendix A:

Category I Inspection-Evaluation

Check List and Report (FC 1.1-75 & FC 1.2-75)

Appendix B:

Category II Inspection-Evaluation

Check List and Report (FC 2.1-75 & FC 2.2-75)

Appendix C:

Nuclear Supplement Inspection-Evaluation

Check List and Report (FCN 5.1-78 & FCN 5.2-78)

SECTION I

INTRODUCTION

This report describes the American Institute of Steel Construction,
Inc. (AISC) Quality Certification Program, the Nuclear Supplement to
this program, and the organization and quality related activities of
the AISC and its principal contractor, ABS Worldwide Technical Services,
Inc. (ABSTECH). The AISC Quality Certification Department was formed
in September 1975, by industry initiative, to reduce or eliminate
redundant source evaluation surveys of fabricators of structural steel.
In 1978 the activities were expanded to include structural steel for
nuclear safety-related structures.

ABSTECH, under contract to AISC, inspects-evaluates structural steel fabricating plants in accordance with standard check lists using qualified auditors. Results of these inspections-evaluations are submitted to the AISC. Quarterly, the AISC publishes the AISC Register which lists structural steel fabricating plants that have the personnel, organization, experience, procedures, knowledge, equipment, capability, and commitment to fabricate structural steel of the required quality for a given category of work. The register also identifies structural steel fabricating plants with a nuclear quality assurance program which meets the criteria of the Nuclear Supplement to the AISC Quality Certification Program and Appendix B to 10CFR Part 50. Thus, the AISC Register should reduce the number of source evaluation surveys of fabricators of structural steel. The AISC Register does not, however, relieve the purchaser of his responsibility for providing any required in-process inspection to determine that a particular item is fabricated to purchase order requirements or for determining the acceptability of the final product.

Electrical utilities, nuclear power plant owners and designers, and other interested parties can obtain copies of the AISC Register by writing the AISC Quality Certification Administrator, AISC Headquarters, 1221 Avenue of Americas, New York, New York 10020.

AISC and ABSTECH activities related to the Nuclear Supplement to the AISC Quality Certification Program are controlled by the requirements identified by the word "shall" in this report, and these activities are subject to inspection by the Nuclear Regulatory Commission. The activities of AISC and ABSTECH are described in this report in relation to the following eight applicable criteria of Appendix B to 10 CFR Part 50:

- 1. Organization
- II. Quality Assurance Program
- V. Instructions, Procedures, and Drawings
- VI. Document Control
- XV. Nonconformances (Services only)
- XVI. Corrective Action
- XVII. Quality Assurance Records
- XVIII. Audits

The remaining criteria of 10 CFR Part 50, Appendix B do not apply to AISC or ABSTECH and are not addressed here. However, the structural steel fabricators are inspected-evaluated by ABSTECH to the pertinent provisions of 16 of the 18 criteria of Appendix B to 10 CFR Part 50 as indicated in Appendix C. Criterion III, "Design", and Criterion XI, "Test Control", are deleted as not applicable to the structural steel fabricating industry. Regarding Criterion III, "Design", this function is performed by either the owner or structural engineer. The structural

detail drawings from which the structural steel is fabricated.

Regarding criterion XI, "Test Control", this function is outside the scope of the structural steel fabricators' work. The structural steel fabrication does not include performance tests of the structure during operation or any tests to demonstrate satisfactory performance of the structure. The structural steel fabricator supplies a steel structure, the design and performance of which is determined by either the owner and or the structural engineer.

SECTION II

CRITERION I - ORGANIZATION

A. AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC)

AISC is a trade association of structural steel fabricators in the United States. It is a non-profit association dedicated to furthering the advancement of steel construction and to reducing the cost of procuring quality steel fabrication. It is responsible for the Nuclear Quality Certification Program. It is governed by an unpaid board of directors and officers elected by the membership. It functions under a set of duly adopted by laws. It is managed by a President who is a full time employee. The AISC Director Quality Certification is also a full time employee of AISC. The AISC organization chart for Quality Certification is attached as Figure I.

I. Membership

The AISC quality certification program is open to all structural steel fabricators - whether they are members of AISC or not. Therefore membership in AISC has no effect upon participation in the program.

2. Board of Directors

All affairs of AISC are managed by a board of directors which consists of thirty members who are elected by the membership. The board of directors then elects officers which serve for a term of one year. The various committees are appointed by the Chairman of the Board.

3. Chairman of the Board

The chairman is elected by the Board of Directors and presides over all board meetings.

4. President

The President, a full time employee of AISC, is appointed by the board of directors and reports to the Chairman of the Board and the board of directors. He manages all the business affairs of AISC.

5. Vice President Engineering

The Vice President Engineering acts as the day by day supervisor of the Director Quality Certification in addition to other duties. The Vice President Engineering is appointed by and reports to the President.

6. Director Quality Certification

The Director Quality Certification, a full time employee of AISC, is the overall manager of the AISC Quality Certification Program. His duties include scheduling of inspection-evaluations, record keeping, review of all ABSTECH reports on certified and non-certified plants, coordination with the ABSTECH Project Manager, audits of the ABSTECH Project Manager, Lead Auditors and Auditors.

The Director of Quality Certification shall have the following qualifications:

- (a) Fabrication Experience Minimum of three years experience in the following positions. Structural steel detailer Structural steel estimating Shop supervision
- (b) Engineering degree from an accredited University and or a registered Professional Engineer.
- (c) Knowledge of quality assurant and quality control of structural steel fabrication for the nuclear industry.
- (d) Administrative and management ability
- (e) Possess abilities to fulfill the described duties.

7. Board Committee On Quality Certification

The members of this committee shall be individuals with knowledge of Quality Certification. This committee, under a Chairman appeinted by the Chairman of the Board, shall develop certification policy and recommend that policy to the Board of Directors for their approval. It also assesses the effectiveness of the program. The committee will be composed of twelve members as follows:

- (a) Nine members of the Board of Directors appointed by the Chairman of the Board.
- (b) The Director of Quality Certification
- (c) Chairman of the Task Nuclear Quality Certification appointed by the Chairman of the Board.
- (d) Chairman of the Task Committee Non-Nuclear Quality

 Certification Appointed by the Chairman of the Board

8. Task Committee Nuclear Quality Certification

The members of this committee, under a chairman appointed by the Chairman of the Board, develops the criteria for Nuclear Quality Certification, Application Instructions, Program Description, Topical Report and Operating Procedures.

Two members of the committee, appointed by the Chairman, shall audit the Director Quality Certification annually for compliance with operating procedures and this report.

The committee is composed by nine members as follows:

- (a) Eight representatives of member companies appointed by the Chairman of the Board.
- (b) Director Quality Certification
- 9. Task Committee Non-Nuclear Quality Certification

 The members of this committee, under a chairman appointed by the Chairman of the Board, develops the criteria for Non-Nuclear Quality Certification, Application Instructions, Program Descriptions and Operating Procedures.

The committee is composed of eight members as follows:

- (a) Seven representatives of member companies appointed by the Chairman of the Board.
- (b) Director Quality Certification.

B. ABS Worldwide Technical Services, Inc. (ABSTECH)

AISC has entered into a contract with ABSTECH to perform the inspection-evaluation of plants under the AISC Quality Certification Program in accordance with standard check lists provided by AISC.

ABSTECH provides high quality third party services that assure compliance with established standards.

ABSTECH is a subsidiary company of the American Bureau of Shipping, which is a non-profit ship classification society serving the maritime industry.

ABSTECH is managed by a President and Executive Vice President
The ABSTECH organizational chart for AISC Quality Certification
is attached as Figure I.

1. President

The President is also President of the American Bureau of Shipping. Operating duties are delegated to the Executive Vice President.

2. Executive Vice President

The Executive Vice President is the Chief operating officer of the company.

3. Assistant Vice President Operations

The Assistant Vice President Operations reports to the Executive Vice President and is responsible for all field activities.

4. Quality Assurance Manager

The Quality Assurance Manager is responsible for monitoring ABSTECH's internal quality assurance program.

Project Manager

The ABSTECH project manager has overall management of the program for ABSTECH. When an application is received from the AISC Director Quality Certification he shall establish an audit team composed of a lead auditor and one auditor. He shall review all reports and submit copies and recommendations to the AISC Director Quality Certification.

The Project Manager for Quality Certification shall have the following qualifications:

- (a) Knowledge of structural steel fabricating plants such as shop operation, structural detailing and purchasing by on the job training.
- (b) Engineering degree from an accredited University and/or a registered Professional Engineer.
- (c) Knowledge of quality assurance and quality control of structural steel fabrication for the nuclear industry.
- (d) Administrative and management ability.
- (e) Possess abilities to fulfill the described duties.

6. Lead Auditor

Lead Auditors shall be individuals who, through a combination of formal and on the job training and experience, are capable of carrying out audits for the AISC Nuclear Supplement to the Quality Certification Program. The Project Manager shall designate Lead Auditors and be responsible for evaluating them.

7. Auditors

Auditors shall work under the supervision of a Lead

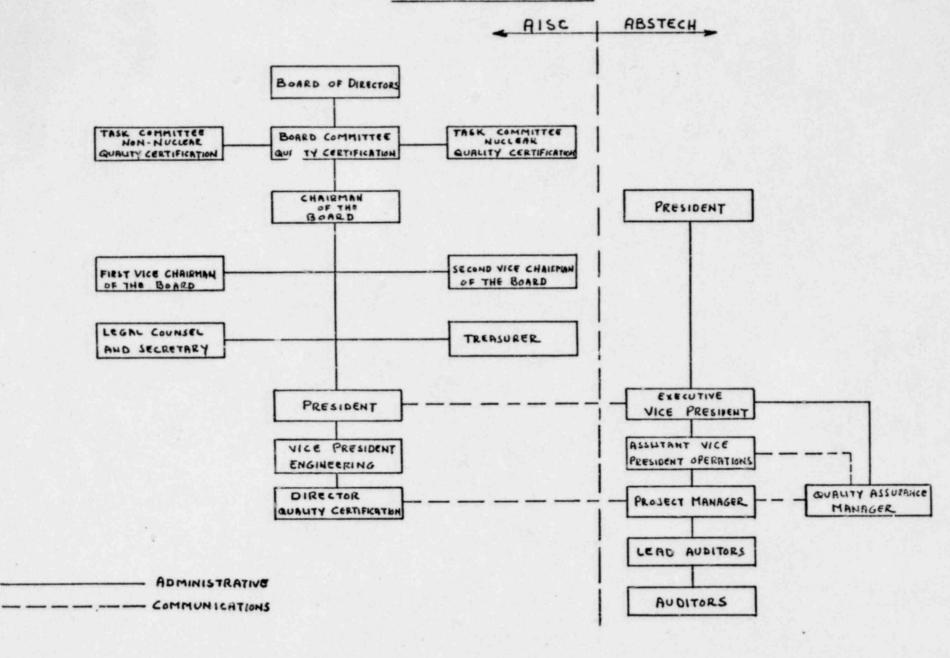
Auditor. They will have ability to advance to a

Lead Auditor through in-house training and experience.

C. Interface

The interface between AISC and ABSTECH takes place between the AISC Director Quality Certification and the ABSTECH Project Manager. All information passing between AISC and ABSTECH relating to the Nuclear Quality Certification Program will occur at this level.

ORGANIZATIONAL CHART



SECTION III

CRITERION II - QUALITY ASSURANCE PROGRAM

A. Organizations Participating in the Quality Assurance Program

The organization and general operation of the AISC Quality
Certification Department and ABSTECH are described in Section (I.
The Quality related activities of the AISC Quality Certification
Department and ABSTECH shall be controlled by the requirements
identified by the word "shall" in this report.

B. Procedural Requirements for Performing Fabricator Evaluations

The AISC Quality Certification Department and ABSTECH shall develop and implement written procedures which comply with this report. These procedures shall establish requirements used in evaluating, documenting and reporting on fabricator quality assurance programs for publications in the AISC Register.

ABSTECH audit teams shall be composed of a Lead Auditor and an Auditor. ABSTECH shall ensure that qualifications of auditor are controlled, maintained, and verified in accordance with their internal procedures.

C. Use of Evaluation Checklists

In evaluating fabricators, ABSTECH audit teams shall use the standardized AISC check list which includes the essential elements required to satisfy quality assurance criteria established by 10CFR 50, Appendix B. The rating procedure and the requirements for certification shall be as established by AISC on the standard check list A copy of the standard check list is included in appendix C to this report.

D. The Inspection Evaluation Cycle

Inspection evaluation of steel fabricators nuclear quality assurance programs shall be performed as follows:

1. Pre-Inspection Evaluation

The audit team shall review the prescribed application material for completeness prior to the plant visit. The prescribed application material includes the fabricator's Quality Assurance Manual and a copy of the Inspection-Evaluation Check List which has the Quality Assurance Manual reference column filled out by the fabricator indicating the page number in the Quality Assurance Manual covering the applicable item. Any required clarification or modification shall be completed by the fabricator prior to the plant visit. Certification in either Category I or Category II is a prerequisite to certification under the Nuclear Supplement.

2. In-Plant Inspection Evaluation

The audit team shall visit the plant, conduct interviews with key supervisory and subordinate employees, and observe and rate the organization in operations affecting quality as prescribed in the standard check list.

Exit-Interview

The audit team shall conduct an exit interview with plant management, discussing any deficiences and omission.

4. Auditor's Recommendations

ABSTECH will then submit a written report to the AISC Director Quality Certification and to plant management providing the recommendation regarding certification.

5. AISC Certification

When ABSTECH recommends certification in accordance with the established guidelines, AISC shall then issue a certificate valid for a three year period. The plant shall be subjected to an unannounced audit by an ABSTECH auditor at the beginning of the second and third years, to assure that functions affecting quality are still being performed in accordance with the Inspection Evaluation Check List. The fabricator shall conduct and submit to the AISC Direcotr Quality Certification a complete self audit, using the standard check list, during the 6th and 18th months following initial certification. This self audit shall be reviewed by AISC's Director Quality Certification and the ABSTECH Project Manager. Failure to comply with the self audit or an unsuccessful unannounced second or third year ABSTECH audit shall result in revocation of the certificate. At the end of three years the cycle shall begin again with an inspection evaluation in accordance with the standard check list.

E. Inspection Evaluation Results

ABSTECH audit teams shall document inspection-evaluation results and recommend certification of a fabricator or any results which deny certification of a fabricator. A copy of the results and recommendations shall be submitted to the ABSTECH project manager and to the AISC Director Quality Certification who shall review the report for accuracy, but he cannot overrule the audit team findings. This report shall be maintained in appropriate record files.

F. Fabricator Approval

The ABSTECH documented results recommending a fabricator for certification shall serve as documented evidence of AISC certification and inclusion in the AISC Register. Continued listing in the AISC Register is dependent upon the prescribed successful unannounced visits, self audit and complete re-evaluation as prescribed for in the program cycle. Failure of any of the above will result in deletion from the next printing of the AISC Register.

G. Training and Qualification of Auditors and Lead Auditors

Qualifications, training, and certification of auditors and lead auditors shall be in accordance with ABSTECH procedures and ANSI N45.2.23.

Qualification, training, and certification records for auditor personnel shall be available to government regulatory agencies and for internal audits.

H. AISC Register

The AISC register shall be prepared quarterly by the AISC Director Quality Certification. It shall include the name and address of all plants that have been inspected, evaluated, and approved for certification.

The register shall be checked for accuracy by the ABSTECH Project Manager. It shall be distributed to AISC member companies and all other interested parties upon request of the AISC Director Quality Certification by the Director.

I. Financing

AISC is a non profit organization. Fabricators requesting certification will pay fees to AISC to cover the cost of program development, survey costs and the costs of administering the program. Non-members of AISC will be charged for copies of the Inspection Evaluation Check List and AISC Register.

J. Effectiveness of Program

The AISC Board Committee on Quality Certification shall assess the scope, status, implementation and effectiveness of the Quality Assurance Program once every calendar year to assure that the program is adequate and complies with 10 CFR 50, Appendix B criteria.

SECTION IV

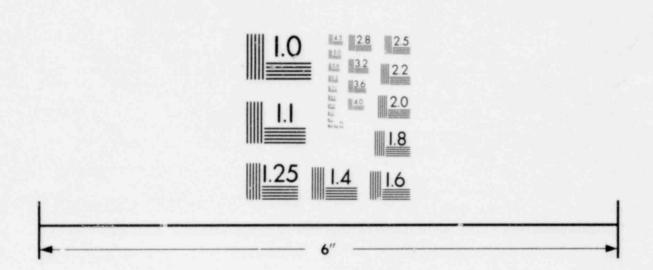
CRITERION V - INSTRUCTIONS AND PROCEDURES

A. General

All procedures affecting the quality - related activities of the AISC Quality Certification Departmen. shall be coordinated with the Task Committee on Nuclear Quality Certification for approval. AISC Quality Certification Department procedures cover such topics as the following:

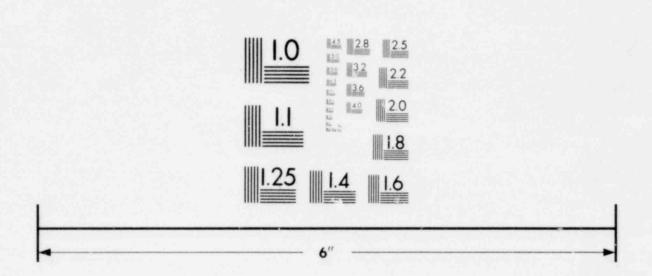
- AISC Quality Certification Program Description.
- AISC Quality Certification Program Application Instructions
- 3. Inspection Evaluation Check List Category I
- 4. Inspection Evaluation Report Category I
- 5. Inspection Evaluation Check List Category II
- 6. Inspection Evaluation Report Category II
- 7. Supplement For Nuclear Power Plant Description
- 8. Supplement for Nuclear Power Plants Application Instructions
- 9. Inspection Evaluation Check List Nuclear Power Plants
- 10. Inspection Evaluation Report for Nuclear Power Plant Supplement.

IMAGE EVALUATION TEST TARGET (MT-3)



OIM VIMESTIME

IMAGE EVALUATION TEST TARGET (MT-3)



OIM STIME STIME OIM

B. Procedures, Preparation, Processing, and Review

Task Committee Nuclear Quality Certification shall:

- 1. Draft and revise procedures as needed.
- Review procedures and revisions to ensure that they are consistent with requirements of this Topical Report and that applicable criteria of 10 CFR 50, Appendix B, are addressed.
- Ensure that procedures and revisions are presented to the Board Committee on Quality Certification for acceptance action.
- 4. Present to the Director Quality Certification all procedures and revisions accepted by the Board Committee on Quality Certification.
- Maintain records on procedures and revisions submitted for processing and review.

SECTION V

CRITERION VI - DOCUMENT CONTROL

A. Program Report Distribution and Control

Controlled copies of this report shall be issued to the
Chairman of AISC Board Committee on Quality Certification,
to the Chairman Task Committee Nuclear Quality Certification,
to the ABSTECH Project Manager, and to the AISC Director
Quality Certification. Other controlled copies may be issued
at the discretion of the AISC Director Quality Certification
as requested, uncontrolled copies will be issued to AISC
member companies and any other interested parties. Programmatic changes to this report shall be submitted for Nuclear
Regulatory Commission review before implementation of the
change. Organizational changes shall be reported to the
Nuclear Regulatory Commission within thirty days of the change.

B. Procedure Distribution and Control

Copies of AISC Nuclear Certification procedures shall be maintained by AISC and ABSTECP. Copies will be available upon request by any interested party. A master list of current revisions shall be maintained by AISC and ABSTECH. A master list of superseded documents shall be maintained by AISC and ABSTECH.

The Board Committee on Quality Certification and the Board of Directors shall approve the procedures and any changes thereto. This approval shall be signified by the Committee Chairman's signature on these procedures.

C. AISC Register Distribution

The AISC Register, dated to indicate the latest revision, shall be distributed quarterly by the Director AISC Quality Certification to all member companies. The AISC Register is available to non-members on a subscription basis.

D. AISC Contract with ABSTECH

The contract between AISC and ABSTECH fully identifies the duties of both parties, the requirements of ABSTECH, the applicable documents to be followed and the right of review of ABSTECH by AISC.

SECTION VI

CRITERION XV - NONCONFORMANCES

Corrective action required of ABSTECH because of nonconformances discovered by the AISC Director Quality Certification during an audit or at any other time shall be reviewed by the AISC Director Quality Certification. A written report shall be made by the AISC Director Quality Certification stating the required corrective action. ABSTECH shall document the corrective action taken.

Program nonconformance shall be documented and corrected in accordance with the Corrective Action section of this report.

SECTION VII

CRITERION XVI - CORRECTIVE ACTION

A. AISC

1. Board Committee on Quality Certification

The Board Committee on Quality Certification shall evaluate any unsatisfactory conditions discovered by audit of the Director Quality Certification, or by any other means, and determine the need for corrective action. A review shall be made of corrective action proposed to preclude recurrence of an adverse condition. The committee shall also conduct a follow-up review to verify implementation of corrective action and to close out the corrective action documentation.

B. ABSTECH

1. AISC Director Quality Certification

The AISC Director Quality Certification shall evaluate any unsatisfactory conditions discovered by audit of ABSTECH, or by any other means, and determine the need for corrective action.

A review shall be made of corrective action proposed to preclude recurrence of an adverse condition. He shall also conduct a follow-up review to verify implementation of corrective action and to close out the corrective action documentation.

C. STRUCTURAL STEEL FABRICATORS

1. ABSTECH Inspection-Evaluation Team

The ABSTECH inspection evaluation team shall evaluate any unsatisfacoty conditions discovered by audit of the fabricator, or by any other means, and determine the need for corrective action. A review shall be made of corrective action proposed to preclude recurrence of an adverse condition. They shall also conduct a follow-up review to verify implementation of corrective action and to close out corrective action documentation.

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SECTION VIII

CRITERION XVII - Q A RECORDS

A. AISC & ABSTECH

1. General

Identifiable and retrievable records shall be maintained to provide objective evidence of compliance with the quality related requirements of this report.

These records shall include the following:

- 1. Program Report
- 2. Certification Applications and Status
- 3. Fabricator Survey Results and Checklists
- 4. Fabricator Annual ABSTECH Audit Reports.
- 5. Fabricator self-audits reports
- 6. Internal Audit Reports
- 7. Quality Certification Operating Procedures
- Records of Auditor Training, Qualification and certification.

2. Record Indexing, Protection and Storage

All quality related records shall be signed and dated by authorized personnel. To prevent loss or theft, deterioration by extreme environmental conditions, and destruction by fire or flooding, duplicate records shall be maintained, one set in AISC's offices and one set in ABSTECH's offices. Each set shall be kept in file cabinets in enclosed buildings.

3. Responsibility for Record Retention and Maintenance
All quality related records shall be retained by AISC
and ABSTECH in accordance with Nuclear Regulatory
Commission Regulatory Guide 1.88.

SECTION IX

CRITERION XVIII - AUDITS

A. AISC

I. General

The Director Quality Certification shall annually audit

ABSTECH for compliance with the operating procedures

and this report. He shall annually audit the ABSTECH

Project Manager, Lead Auditors and auditors for

with proper training and the following program guidelines:

- (a) Review of applications for completeness by the audit team.
- (b) Confirmation of application data at the plant.
- (c) Proper interviews with supervisory and subordinate employees.
- (d) Observation and rating of the organization in overation.
- (e) Conduct of the exit interview.
- (f) Proper re-audits if required.
- (g) Qualifications of lead auditors and auditors.

The AISC Board Committee on Quality certification shall anually audit the Director Quality Certification for compliance with the operating procedures and this report.

2. External Audits

Audits performed by the Director Quality Certification shall be performed in accordance with written procedures or check lists. Results shall be documented and reviewed with the ABSTECH Project Manager. Corrective action shall be required for any unsatisfactory condition. Audit reports shall be

1

prepared and a copy sent to the AISC Board Committee on Quality Certification.

3. Internal Audits

Audits performed by the AISC Board Committee on Quality Certification shall be performed in accordance with written procedures or check lists. A copy of the report of each audit shall be maintained in the AISC Files. The audit report shall be reviewed with the Director Quality Certification. Corrective action shall be required for any unsatisfactory condition.

Corrective action required of the Director of Quality

Certification shall be reviewed by the AISC Board Committee

on Quality Certification.

4. Re-Audits

Verification of corrective action shall be accomplished by re-audit, which may be performed by on-site verification of objective evidence or review of submitted data.

B. ABSTECH

1. General

The Project Manager shall perform an annual audit of auditors and Lead Auditors for compliance with the operating procedures and this report.

2. Internal Audits

Audits performed by the ABSTECH Quality Assurance Manager shall be performed in accordance with written procedures or check lists. Results shall be documented and reviewed with the Project Manager, Lead Auditors, and Auditors.

Corrective action shall be required for any unsatisfactory condition. Audit reports shall be prepared and a copy sent to the AISC Director Quality Certification.

Corrective action required of the Project Manager, Auditors or Lead Auditors shall be reviewed by the Quality Assurance Manager.

3. External Audits

Inspection-evaluation and annual audits performed by Lead
Auditors or Auditors shall be performed in accordance with
written procedures or check lists. Results shall be documented
and reviewed with the audited steel fabricator. Corrective action shall
be required for any unsatisfactory condition. Audit reports
shall be prepared and a copy sent to the Project Manager.

4. Re-Audits

Verification of corrective action shall be accomplished by re-audit, which may be performed by on-site verification of objective evidence or review of submitted data.

AISC REGISTER

OF

CERTIFIED STRUCTURAL STEEL FABRICATORS

-DATE-

Published by

American Institute of Steel Construction, Inc.

Wrigley Building

400 North Michigan Avenue

Chicago, Illinois 60611

8th Floor

HOW TO USE THE AISC REGISTER

The *ISC Register lists the company name, plant location, category of certification, and if certified, under the Nuclear Supplement.

The AISC Register is published as a service to the Construction and Nuclear Industry. The goal is to assit in the economic evaluation of structural steel fabricators for the fabrication of structural steel for non-nuclear and nuclear safety-related structures. Information contained in the following pages has been developed by the publisher and is intended as a central source of information.

This Register will be revised and re-published totally or in part at quarterly intervals to keep the list current.

Revisions to the listing will contain additions or deletions as recommendations to specific requirements for certification are met.

COMPANY

PLANT LOCATION

DATE OF CERTIFICATION

CERTIFICATION CATEGORY

NUCLEAR SUPPLEMENT

NUCLEAR SUPPLEMENT DATE

APPENDIX - A

AMERICAN INSTITUTE OF STEEL CONSTRUCTION QUALITY CERTIFICATION INSPECTION - EVALUATION CHECK ' LST

CATEGORY I SIMPLE STEEL STRUCTURES

Typical structures in this category may include but are not necessarily limited to the following:

Small public service and institutional buildings such as schools, etc.

Low rise, truss/beam/column.

Shopping centers

Light manufacturing

Stairs and platforms

Ornamental

Warehouses

Simple rolled beam bridges

Sign structures

Plant	-		- 1 -
Inspector_	•		
Date			

CATEGOR: I

INSPECTION - EVALUATION CHECK LIST

R. ing Procedure

Each item on the Inspection-Evaluation Check List will be rated from 0 to 4 or indicated "NA" on the following basis:

- (0) Unsatisfactory: No effective compliance
- (1) Poor: Less than minimum requirements
- (2) Satisfactory: Complies with minimum requirements

This may include items marked essential.

- (3) Good: Above minimum requirements
- (4) Outstanding: Superior to others
- (NA) Not Applicable: Certain items on the Inspection-Evaluation Check List may not be appropriate for the plant being certified, and should not be rated. These items will not be considered "rated items" in computing Summary Ratings. NOTE: The Inspection-Evaluator may, at his discretion, mark an item on the Inspection-Evaluation Check List NA even though it may not be so noted, providing, a complete explanation is given for doing so.

Minimum Ratings Required for Certification

- * The detailed methods for computing these Ratings are included with the Inspection-Evaluation Report sent to each applicant for Certification.

CATEGO		I INSPECTION-EVALUATION CHECK LIST MANAGEMENT	Rating	Explanation
1.	Po1	icy Statement		
	а.	DOES THIS STATEMENT AFFIRM THAT THE COMPANY POLICY IS TO DIRECT ALL ACTIVITIES OF THE ORGANIZATION IN SUCH A MANNER THAT THE FABRICATED PRODUCT MEETS THE QUALITY REQUIREMENTS SPECIFIED IN THE CONTRACT DOCUMENTS?	01234	
2.	Org	anization and Personnel		
	а.	Does the organization chart clearly show lines of plant management authority and lines of responsibility down to principal plant department supervisors?	01234	
	ъ.	Adequacy of job descriptions.	01234	
	с.	Qualification of assigned personnel for key positions.	01234	
3.	Pro	cedures		
	a.	EFFECTIVENESS OF PLANT MANAGEMENT REVIEW OF ASSIGNED WORK TO DETERMINE QUALITY REQUIRE-MENTS.	01234	
	b.	OF SPECIAL QUALITY REQUIREMENTS TO PLANT DEPARTMENTS.	01234	
	c.	Effectiveness of review procedures for fabrication and erection prior to start of fabrication.	01234	
			F	
Plant		Inspector	Dat	te

CATEGOI	RY: I INSPECTION-EVALUATION CHECK LIST	Rating	Explanation
	INSTESTION ENGINEERING STORE		
A. GE	NERAL MANAGEMENT (continued)		
4.	Facilities and Equipment		
	a. Does Management have an adequate and current inventory of fabrication equipment in the plant?	01234	
5.	Record		
	Does the fabricator have verification and eval- uation of his records of work which demonstrates the effect of his quality assurance program?	01234	- J. Jr.
		Total Control	

Plant _____

Inspector_____ Date ____

CATEGORY	: I INSPECTION - EVALUATION CHECK LIST	Rating	Explanation
B. ENG	INEERING AND DRAFTING		
1.	Policy Statement		
i	a. Does this policy affirm the company will provide shop detail drawings and instructions which ade- quately interpret the owner's designs and speci- fications and which are approved by the owner?	01234	
2.	Organization & Personnel		
	If there is an organized in-house Drafting Department, the following questions are to be evaluated. (a thru h) (May be NA)		
	a. IS THERE IN-HOUSE DRAFTING CAPABILITY WITH DRAFTSMEN AND CHIEF DRAFTSMAN WHO IS AN ENGINEERING TECHNICIAN (SOME TRADE SCHOOL OR COLLEGE TRAINING AND/OR EXPERIENCE) OR C.E. OR REGISTERED P.E.?	01234	
	b. Is the Drafting Department formally organized and does it include an organization chart with written responsibilites for each position?	01234	
	c. Are the lines of authority and responsibility for the Drafting Department clearly shown with respect to other departments?	01234	
	d. Adequacy of the Chief Draftsman's knowledge of applicable codes and specifications.	01234	
	e. Adequacy of provisions and personnel to list, specify, and define material requirement definitions.	01234	
	f. Do these people have adequate knowledge of the applicable material specifications?	01234	
	g. Do these people have adequate knowledge of mill rolling practices as they affect structural steel detailing?	01234	
	h. Is there an adequate drafting squad including an experienced Squad Foreman?	01234	
	 Adequacy of personnel available to provide technical answers to other departments. 	01234	
Plant	Inspector	Date	

Date Inspector

0 1 2 3 4

t. Does the company have adequate in-house design engineers or does it consistently use consul-

tants qualified by registration or experience?

30RY	: I	INSPECTION - EVALUATION CHECK LIST	Rating	Explanatio
ENG	INEE	RING AND DRAFTING (continued)		
3.	Pro	cedures		
		DEDITION OF THE ACCUMPANT		
•	a.	DOES THE DRAFTING DEPARTMENT MAINTAIN A CURRENT LOG OF DESIGN DRAWINGS AND SPECIFICATION RECEIPTS		
		WITH LATEST REVISIONS AND DISPOSITIONS?	0 1 2 3 4	
				li de la companya de
	ь.	DETAIL DRAWINGS CHECKED BY QUALIFIED PERSONNEL.	01234	
	c.	DOES THE DRAFTING DEPARTMENT MAINTAIN A CURRENT		
	70	LOG OF SHOP DETAIL DRAWINGS WITH LATEST		
		APPROVAL, REVISIONS AND DISPOSITIONS?	01234	
	d.	ARE COPIES OF APPROVED SPECIAL PROCEDURES, IN		
	u.	ADDITION TO WELDING, FURNISHED TO QUALITY CON-		
		TROL AND PRODUCTION SUPERVISORS?	01234	
		Comment los of annulul amounts destroyed		
	e,	Current log of special process instructions with latest approval, revisions, dissemination		
		and control.	01234	
	f.		01224	
		approved by those who originated the documents.	01234	
	g.			
		documents are destroyed or isolated from use.	01234	
	h.	Adequacy of established drafting standards and		
		are there procedures to assure compliance both		
		in house and on sublet work.	01234	
	i.	DRAFTING PROCEDURES TO ESTABLISH IDENTITY OF		
		MAIN MATERIAL IN FINAL STRUCTURE SO THAT IT		
		CAN BE TRACED TO MATERIAL REQUISITIONS AND		
		MILL TEST REPORTS AND ARE PROCEDURES USED TO ASSURE COMPLIANCE BOTH IN HOUSE AND ON SUBLET-		
		DRAFTING WORK?	01234	
2				
-				
		역시 사람들이 이 경찰 마음 내내가 되고 있다면 없었다.		

Inspector

Date

Plant_

Date

GORY	: I	INSPECTION-EVALUATION CHECK LIST	Rating	Explanatio
ENG	INEE	RING AND DRAFTING (continued)		
		cedures (continued)		
3:	Pro	Procedure for control, distribution and revision		
	1.	of job specifications to shop force and quality		
1		control.	01234	
	k.	Procedure for coordinating drafting procedures with field erection requirements.	01234	
	2.	Effectiveness of written procedure for control,	01234	
		issue, revision of approved shop detail	01234	
4.	Fac	ilities and Fquipment		
	a.	CURRENT REFERENCE LIBRARY OF SPECIFICATIONS		
	۵.	INCLUDING:		
		AWS		
		ASTM AISC		
		Quality Criteria		
		Guide to Shop Painting		
		Steel Cong ruction Manual		
		Structural Steel Detailing		
		SSPC APPLICABLE STATE D.O.T. Applicable		
		APPLICABLE STATE D.O.T. Applicable to Bridge		
		AREA Work Only	01234	
			01234	
	b.	Legible shop prints provided.	01234	
4		전에 되었다고 있는데 가장 무슨 사람들이 모든 이 사람들이		

Inspector

Plant ____

CATE	GORY:	1	INSPECTION-EVALUATION CHECK LIST	Rating	Explanation
c.	PRO	CURE	MENT		
	1.	Po1	icy Statement		
	-	obt	s this statement affirm the Company policy to ain material and services in conformance with tract documents and specifications?	01234	
	2.	Org	anization and Personnel		
			erial ordering personnel specifically trained purchasing of materials.	01234	
	3.	Pro	cedures		
		a.	MATERIAL ORDERED TO A PARTICULAR SPECIFICATION.	01234	
		ъ.	Fabricated purchased items subject to same Quality Control criteria as in-plant fabricated items.	01234	
		c.	Where a level of certification is required by contract documents, is sublet fabrication awarded to fabricator holding appropriate certification?	01234	
		d.		0 1 2 3 4	
		e.	Mill materials inspected upon receipt and marked for permanent identification.	01234	
		f.	All other purchased materials (bolts, paint, castings, etc.) checked for conformance to purchasing document upon receipt.	01234	
		g.	Controls set up to insure proper usage of purchase items.	01234	
		h.	Records maintained and procedures functioning to insure traceability of grade, and where required, heat numbers and material test re- ports for special requirements.	01234	
		i.	Manufacturers' test reports of bolts, weld wire, paint, etc., kept on file, if required.	01234	
		j.	MILL TEST REPORTS KEPT ON FILE.	01234	
	4.	Equ	uipment and Facilities		
		F#1	le of current ASTM specifications available Procurement personnel.	01234	

Plant	Inspector	Date	
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EGORY	: 1	INSPECTION - EVALUATION CHECK LIST	Rating	Explanati
0.000			:	
OPE	RATI	ONS		
i.	Po1	icy Statement		
	a.	Does this statement affirm Company policy - "To manufacture from approved shop detail drawings and procedures and ship a finished product in accordance with contract docu- ments and specifications"?	01234	
	b.	Is there an adequate policy for resolving controversy between Operations and Quality Control on nonconforming items.	01234	
2.	Org	anization and Personnel		
	a.	Does organization chart show clearly lines of responsibility and authority?	01234	
	ь.	Job descriptions available and adequate.	01234	-
	с.	Supervisors qualified by experience and/ or education.	01234	
	d.	DOES THE FABRICATOR HAVE A COMPETENT WELDING TECHNICIAN OR SUPERINTENDENT OR AN OUTSIDE EXPERT AVAILABLE ON CALL TO ADVISE ON WELDING PROBLEMS?	01234	
	e.	Does this person have the authority to control welding procedures in the shop?	01234	
	f.	WELDERS CERTIFIED PER A.W.S.	01234	
	g.	DOES THE FABRICATOR HAVE A WELDER IDENTIFI- CATION SYSTEM?	01234	
	h.	SHOP SUPERVISION CONVERSANT WITH CURRENT WORKMANSHIP PROVISIONS OF AWS AND AISC SPECIFICATIONS.	01234	
- 2				
Plant		Inspector	Date	

Date

Inspector

Plant

Plant			Inspector	Date	
		iv.	Does the procedure include provision for action to avoid future nonconforming work?	01234	
		iii.	System used to indicate conforming or nonconforming work in progress.	01234	
		ii.	Does this procedure assure the level of authority is commensurate with the problem?	01234	
286		1.	Procedure for correcting non conforming material or work in process rejected by the Quality Control forces.	01234	-
	d.		tive Action		
			Provisions for wet and dry film measure- ment control.	01234	
			Provisions for adequate agitation, temp- erature control and methods of paint application.	01234	
			Provisions for control of surface prepar- ation in accordance with SSPC standards. (May be NA depending upon type of work)	01234	
			Pre-blasting or post-blasting equipment. (May be NA depending upon type of work)	01234	
	c.	Clean	and Paint		
		xv.	PROPER BOLT TIGHTENING PROCEDURES USED PER RCRBSJ SPECIFICATIONS.	01234	
		xiv.	Checking of workmanship throughout the process to conform to contract documents and specifications.	01234	-
		xiii.	Welders identify welds they make.	01234	
		xii.	Welders clean slag and check their welds.	01234	
		xi.	RECORD OF WELDER QUALIFICATIONS AND WELDER IDENTIFICATION SYSTEM MAINTAINED IN THE SHOP.	01234	
	ь.	Fabrica	tion (continued)		
	Pro	cedures	(Continued)		
D. OPER	LATI	ONS (Cor	tinued)		
CATEGORY:					

CATE	GORY	: I	INSPECTION - EVALUATION CHECK LIST	Rating	Explanation					
D.	OPERATIONS (continued)									
	3.	Procedures (continued)		[
	i.	€.	Shipping							
			 Provisions for suitable loading, blocking and bracing for shipment. 	01234						
		f.	Maintenance							
			1. EQUIPMENT AND TOOLS PERIODICALLY INSPECTED TO INSURE ACCEPTABLE PERFORMANCE.	01234						
			11. WELDING MACHINES PERIODICALLY CHECKED TO INSURE CORRECT AMP AND VOLT READINGS.	01234						
	4.	4. Facilities and Equipment for Fabrication								
		a.	Does fabricator have automatic or semi-automatic equipment for making continuous welds, etc?	01234	-					
		ь.	Manual welding equipment in use in acceptable operating condition.	01234						
		с.	Does fabricator have mechanically-guided burning equipment?	01234						
		d.	Does fabricator have a wneelblast or sandblast equipment? (May be NA)	01234						
		e.	Does fabricator have mechanical paint agitators and other painting equipment?	01234						
		f.	If fabricator is involved in riveting, metali- zing and stud welding, is his equipment adequate (May be NA depending on type of work)	7 0 1 2 3 4						
		g.	Does fabricator have adequate and accurate hole- making equipment? (Punches and Drills)							
		h.	Does fabricator have adequate and accurate cut- ting and finishing equipment? (Shears, saw, milling machine, planer and/or grinder)	01234						
	i	1.	Housekeeping adequate.	01234	A R (4) [14]					
			Air supply adequate.	01234						
			Electrical supply adequate.	01234						
Pla	ant		Inspector	Date						

CATEGOR	Υ:	I INSPECTION-EVALUATION CHECK LIST	Rating	Explanation				
E. QUA	LITY	CONTROL	1					
11.	Po1	icy Statement						
i	5.	Does this statement affirm that the Company policy is "To provide the inspection and control procedur to assure that the fabricated product is in accordance with contract documents and specifications?"	es					
2.	Org	anization and Personnel						
	a.	Does the Organization include a qualified Quality Control Supervisor?	01234					
	ъ.	Is a qualified testing service available and used if required?	01234					
	c.	Are there qualified shop inspectors or persons to perform this function?	01234					
	d.	Does the Organization include at least one qualified in-house Magnetic Particle Inspection Technician?	01234					
3.	Procedures							
	а.	ARE CONTRACT SPECIFICATIONS AND SPECIAL PRO- VISIONS ON FILE?	01234					
	b.	DOES QUALITY CONTROL HAVE AUTHORITY TO STOP AND RESPONSIBILITY TO INFORM OPERATING SUPER- VISION ON NON-CONFORMING WORK?	01234					
See go								
			-					
			•					
Plant		Inspector	Date					

CAT	TEGORY:	I INSPECTION - EVALUATION CHECK LIST	Rating	Explanation
E.	QUALIT	Y CONTROL (continued)		
	31 Pro	cedures (continued)		
	i c.	Is a check made to ensure that approved welding procedures are disseminated and followed in the shop?	01234	
	d.	Required records maintained: Of Heat Numbers and material test reports for special requirements.	01234	
	e.	Required records maintained of N.D.T. Reports.	01234	
	f.	RECORD OF QUALIFIED WELDERS ON FILE.	01234	
	g.	An adequate in-process inspection procedure.	01234	
	h.	Adequate procedure for handling nonconforming material.	01234	
	í.	Adequate procedures for liason with outside inspectors.	01234	
		A CURRENT LIBRARY OF SPECIFICATIONS, INCLUDING:		
	a.			
		AWS AISC		
		Quality Control Guide to Shop Painting ASTM ASNDT SSPC		
		APPLICABLE STATE D.O.T. Applicable		
		AASHTO to Bridge work only	01234	
	4			
Plan	nt	Inspector	Date	

CATEGOR	Y:	I INSPECTION-EVALUATION CHECK LIST	Rating Explanation
	LITY	CONTROL (continued)	
4.	Fac	cilities and Equipment (continued)	
	ъ.	DO THE INSPECTORS HAVE THE FOLLOWING EQUIPMENT AVAILABLE?	T
		Tapeline Welding Gauges	
		Tag System	01234
		Paint Gauge	01234
	c.	Is the following equipment available?	
		Magnetic Particle	0 1 2 3 4
4			
Plant		Inspector	Date

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INSPECTION - EVALUATION - EX	XII 7W	TERVIEW
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REPORT OF RATED ITEMS WITH LESS THAN 2 RATING WHICH INDICATES AN OMISSION OR A DEFICIENCY.

THE INSPECTION - EVALUATION TEAM WILL LIST AND EXPLAIN THE REASON FOR ANY RATED ITEM WITH A RATING LESS THAN 2.

FUNCTION

EXPLANATION

- A. GENERAL MANAGEMENT
- B. ENGINEERING & DRAFTING

- C. PROCUREMENT
- D. OPERATIONS

E. - QUALITY CONTROL

.

Plant Inspector Date

AMERICAN INSTITUTE OF STEEL CONSTRUCTION

QUALITY CERTIFICATION PROGRAM

INSPECTION - EVALUATION REPORT

Che...

Initial Certification

CATEGORY : I

Fabricator:		
Surveyed By:	Date:	
Street Address:	City/State:	Zip:
Persons Contacted:		
Name: 1	3	5
Title:		
Name: 2.	4	6
Title:		
Certification recomme	nded	
Certification not rec		
If not recommended, i	ndicate reason(s):	
		*

INSPECTION - EVALUATION REPORT

SUMMARY RATING OF GENERAL MANAGEMENT

1 -			ve % Wei		Rating per
A1	Policy Statement	for ea	ich Segmen	nt	Segment
	total points	x	15%		
	number of rated items				
A2.	Organization & Personnel				
		x	30%		
	number of rated items	^	30%		
	number of fated frems				
A3.	Procedures				
			205		
	total points	X	20%		
	number of rated items				
A4.	Facilities & Equipment				
	total points	х	10%		
	number of rated items				
A5.	Record				
	total points	X	25%		
	number of rated items				
Summary	Rating of General Management:		100%		
					Check One
		*			Approved
					Disapproved
					Disapproved
D1	Inspe	ctor			Date
Plant _	Inspe				

INSPECTION - EVALUATION REPORT

SUMMARY RATING OF ENGINEERING/DRAFTING

B1.	Policy Statement		ive % We		Rating per Segment
	total points number of rated items	x	10%		
В2.	Organization & Personnel				
	number of rated items	x	30%		
вз.	Procedures				
	number of rated items	x	50%	•	
в4.	Facilities & Equipment				
	total points number of rated items	x	10%		
Summary	Rating of Engineering/Drafting:		100%		
					Check One
					Approved
					Disapproved
Plant	Inspector				Date

CATEGORY: I

INSPECTION-EVALUATION REPORT

SUMMARY RATING OF PROCUREMENT

1 -		Rel	ative % We	ight	Rating per
1	Policy Statement		each Segm		Segment
	total points number of rated items	3	10%		
2.	Organization & Personnel				
۷.	organization a rersonner				
	number of rated items	,	30%	•	
3.	Procedures				
	total points number of rated items	3	50%		
24.	Equipment & Facilities				
	total points number of rated items	3	10%	•	
ummary	Rating of Procurement:		100%		
					Check One
					Approved
i					Disapproved
					•
lant	Tou	spector			Date

Date ____

INSPECTION - EVALUATION REPORT

SUMMARY RATING OF OPERATIONS

D1.	Policy Statement	Rela	Rating per Segment		
	number of rated items	x	10%	•	
D2.	Organization & Personnel				
	total points number of rated items	x	35%		
D3.	Procedures				
	total points number of rated items	x	40%		
D4.	Facilities & Equipment				
	total points number of rated items	x	15%		
Summary	Rating of Operations		100%		
					Check One
					Approved
					Disapproved

Plant _____ Inspector _____

CATEGORY: I

Plant ___

INSPECTION - EVALUATION REPORT

	SUMMARY RATIN	G OF QUALITY	Y CONTRO	DL	
1	Policy Statement	Relati for ea	ve % We:	ight	Rating per Segment
	number of rated items	x	5%		
2.	Organization & Personnel				
	number of rated items	x	40%		
23.	Procedures				
	total points number of rated items	x	50%		
E4.	Equipment & Facilities				
	total points number of rated items	x	5%	•	
Summary	Rating of Quality Control:	1	100%		
					Check One
*					Approved
					Disapprove

Inspector ______Date _____

INSPECTION - EVALUATION REPORT

OVERALL RATING OF TOTAL . RATION

FUNC	TION	SUMMARY RATING	% WEIG	нт	WEIGHTED RATING
Α.	General Management		x	10%	
в.	Engineering/Drafting		x	15%	
c.	Procurement		x	10%	
D.	Operations		x	40%	
E.	Quality Control		x	25%	
	Overall Rating of Total Operation		1	100%	

RATING OF ESSENTIAL ITEMS

ITEM	RATING	ITEM	RATING	ITEM	RATING	ITEM	RATING	ITEM	RATING
Ala		B2a		C3a		D2d		E3a	
A3a		B2j		C3j		D2f		E3b	
A3b		B2k				D2g		E3f	
1130		ВЗа				D2h		E4a	
		B 3b				D3a i		E4b	
		ВЗс				D3a ii	i		
		B3d				D3b ii	i		
		B3i				D3b iv			
		B4a				D3b v			
						D3b ix			
						D3b x			
						D3b xi			
						D3b xv			
						D3f i			
						D3f ii		Check One	
	•							Approved	
								Disapprov	ed

Plant	Inspector	Date	
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APPENDIX - B

AMERICAN INSTITUTE OF STEEL CONSTRUCTION

QUALITY CERTIFICATION INSPECTION - EVALUATION CHECK LIST

CATEGORY: II COMPLEX STEEL STRUCTURES

Typical structures in this category may include but are not necessarily limited to the following:

Large public service and institutional buildings

Heavy manufacturing

Power houses (fossil non Q)

Metal producing/rolling facilities

Crane Bridge girders

Bunkers and bins

Stadia, auditoriums

High rise

Chemical processing

Petroleum processing

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INSPECTION - EVALUATION CHECK LIST

CATEGORY: II

Rating Procedure

Each item on the Inspection-Evaluation Check List will be rated from 0 to 4, or indicated "NA" on the following basis:

- (0) Unsatisfactory: No effective compliance
- (1) Poor: Less than minimum requirements
- (2) Satisfactory: Complies with minimum requirements
- (3) Good: Above minimum requirements
- (4) Outstanding: Superior to others
- (NA) Not Applicable: Certain items on the Inspection-Evaluation Check List may not be appropriate for the plant being certified, and should not be rated. These items will not be considered "rated items" in computing Summary Ratings.

NOTE: The Inspection-Evaluator may, at his discretion, mark an item on the Inspection-Evaluation Check List NA even though it may not be so noted, providing, a complete explanation is given for doing so. This may include items marked essential.

Minimum Ratings Required for Certification

- 1. Overall Rating of Total Operation* 2.5
- 3. Ratings of Essential Items (indicated on check list by CAPITAL LETTER. 2.0
- 4. Rating of Items Other than Essential Items NO MINIMUM
- * The detailed methods for computing these Ratings are included with the Inspection-Evaluation Report sent to each applicant for Certification.

CATEGOR	Υ:	II INSPECTION - EVALUATION CHECK LIST	Rating	Explanation
A. EN	VERAL	MANAGEMENT		
1.	Po1	icy Statement		
í. ;	a.	DOES THIS STATEMENT AFFIRM THAT THE COMPANY POLICY IS TO DIRECT ALL ACTIVITIES OF THE ORGANIZATION IN SUCH A MANNER THAT THE FAB- RICATED PRODUCT MEETS THE QUALITY REQUIRE- MENTS SPECIFIED IN THE CONTRACT DOCUMENTS?	0 1. 2 3 4	
	ъ.	DOES THIS POLICY INDICATE A RECOGNITION OF SEPARATION OF RESPONSIBILITY FOR PRODUCTION SUPERVISION FUNCTION AND QUALITY CONTROL SUPERVISION FUNCTION?	01234	
	c.	HAS THE POLICY BEEN DISSEMINATED TO PROPER LEVELS OF MANAGEMENT AS REFLECTED BY GENERAL ATTITUDE AND AWARENESS OF QUALITY ASSURANCE REQUIREMENTS?	01234	
2.	Org	anization and Personnel		
	ã.	Does the organization chart clearly show lines of plant management authority and lines of responsibility down to principal	01224	
		plant departmental supervisors?	01234	
	b.	Adequacy of job descriptions.	0 1 2 3 4	
	с.	Qualification of assigned personnel for key positions.	01234	
3.	Pro	cedures		
	а.	EXFECTIVENESS OF PLANT MANAGEMENT REVIEW OF ASSIGNED WORK TO DETERMINE QUALITY REQUIRE- MENTS.	01234	
	b.	EFFECTIVENESS OF PROCEDURE FOR DISTRIBUTION OF SPECIAL QUALITY REQUIREMENTS TO PLANT DEPARTMENTS.	01234	
	c.	Effectiveness of review procedures for fabri-		
		cation and erection prior to start of fabrication.	01234	
	d.	Effectiveness of any technical support for meeting quality requirements from sources outside the plant or from higher manage-	0 1 2 3 4	
		ment.	<u> </u>	
Plant _		Inspector	Date	

EGOR	7: II <u>INSPECTIO</u>	N-EVALUATION CHECK LIST	Rating	Explanat
GEN	ERAL MANAGEMENT (continued)		
4.	Facilities and Equipment			
	a. Does management have ventory of fabrication	an adequate and current in- n equipment in the plant?	01234	
	b. Does the Plant Manage assistance to permit	er have space and clerical efficient performance?	01234	
5.	Record			
	Does the fabricator have of his records of work wh of his quality assurance	verification and evaluation ich demonstrates the effect program?	01234	
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i				
ant		Inspector	Date	

				FC 2.1-75
CATEGOR	Y: 1	INSPECTION - EVALUATION CHECK LIST	Rating	Explanatio
B. EN	GINEE	ERING AND DRAFTING		
1.	Pol	licy Statement		
i .	a.	Does this policy affirm the company will provide shop detail drawings and instructions which ade- quately interpret the owner's designs and speci-		
		fications and which are approved by the owner?	01234	
	ъ.	Has this policy been disseminated to proper levels of supervison as reflected by general attitude and awareness of quality assurance requirements?	01234	
2.	Org	anization & Personnel		
	men	there is an organized in-house Drafting Depart- t, the following questions are to be evaluated. thru h) (May be NA)		
	a.	IS THERE IN-HOUSE DRAFTING CAPABILITY WITH DRAFTSMEN AND CHIEF DRAFTSMAN WHO IS AN ENGINEERING TECHNICIAN (SOME TRADE SCHOOL OR COLLEGE TRAINING AND/OR EXPERIENCE) OR C.E. OR REGISTERED P.E.?	01234	
	ъ.	Is the Drafting Department formally organized and does it include an organization chart with written responsibilites for each position?	01234	
	c.	Are the lines of authority and responsibility for the Drafting Department clearly shown with respect to other departments?	01234	
	d.	Adequacy of the Chief Draftsman's knowledge of applicable codes and specifications.	01234	
	e.	Adequacy of provisions and personnel to list, specify, and define material requirement definitions.	01234	
	f.	Do these people have adequate knowledge of the applicable material specifications?	01234	
	g.	Do these people have adequate knowledge of mill rolling practices as they affect		
		structural steel detailing?	01234	
	h.	Is there an adequate drafting squad including an experienced Squad Foreman?	01234	
	i.	Adequacy of personnel available to provide technical answers to other departments.	01234	
Plant		Inspector	Date	

CATEGORY: II INSPECTION-EVALUATION CHECK LIST Rating Explanation

16	INEL	RING AND DRAFTING (cont'd)	
	Org	anization & Personnel (cont'd)	
	If are	detail drawings are sublet, the following questions to be evaluated. (j thru o) (May be NA)	
	j.	ARE SHOP DETAILS SUBLET TO A QUALIFIED STRUCTURAL DRAFTING FIRM WHO HAS A CHIEF DRAFTSMAN WHO IS AN ENGINEERING TECHNICIAN (SOME TRADE SCHOOL OR COLLEGE TRAINING AND/OR EXPERIENCE) OR C.E. OR REGISTERED P.E.?	01234
	k.	IS THERE AN IN-HOUSE PERSON CAPABLE OF SUPER- VISING, EVALUATING AND COORDINATING OUTSIDE SHOP DETAIL DRAWINGS?	01234
	£.	Does this person transmit standards and assure adequate compliance by the sublet detailer?	0 1 2 3 4
	m.	Does this person have adequate knowledge of applicable code and specifications?	0 1 2 3 4
	n.	Does this person have adequate knowledge of the applicable material specifications?	01234
	0.	Does this person have adequate knowledge of mill rolling tolerances as they affect structural steel detailing?	01234
	Dep	there is an organized in-house Design Engineering artment, the following questions are to be cluated. (p thru t) (May be NA)	
	p.	Is the Engineering Department formally organized and does it include an organization chart with written responsibilities for each position?	0 1 2 3 4
	q.	Are the lines of authority and responsibility for the Engineering Department clearly shown with respect to other departments?	0 1 2 3 4
	r.	Is there a person capable of supervising in- house design or evaluating and coordinating outside design?	0 1 2 3 4
	s.	Does this person have adequate knowledge of applicable codes and specifications?	01234
	t.	Does the company have adequate in-house design engineers or does it consistently use consultants qualified by registration or experience?	0 1 2 3 4

Plant ____ Date ___

TEGORY	: 1	INSPECTION - EVALUATION CHECK LIST	Rating	Explanation
. ENG	INEE	RING AND DRAFTING (continged)		
1 3.	Pro	ocedures		
i	а.	DOES THE DRAFTING DEPARTMENT MAINTAIN A CURRENT LOG OF DESIGN DRAWINGS AND SPECIFICATION RECEIPTS WITH LATEST REVISIONS AND DISPOSITIONS?	01234	
	ъ.	DETAIL DRAWINGS CHECKED BY QUALIFIED PERSONNEL.	01234	100
	c.	DOES THE DRAFTING DEPARTMENT MAINTAIN A CURRENT LOG OF SHOP DETAIL DRAWINGS WITH LATEST APPROVAL, REVISIONS AND DISPOSITIONS?	0 1 2 3 4	
	d.	ARE COPIES OF APPROVED SPECIAL PROCEDURES, IN ADDITION TO WELDING, FURNISHED TO QUALITY CONTROL AND PRODUCTION SUPERVISORS?	01234	
	e.	Current log of special process instructions with latest approval, revisions, dissemination and control.	01234	
	f.	Changes to drawings and documents reviewed and approved by those who originated the documents.	01234	
	g.	Provisions to assure that obsolete drawings and documents are destroyed or isolated from use.	01234	
	h.	Adequacy of established drafting standards and are there procedures to assure compliance both in house and on sublet work.	01234	
	i.	DRAFTING PROCEDURES TO ESTABLISH IDENTITY OF MAIN MATERIAL IN FINAL STRUCTURE SO THAT IT CAN BE TRACED TO MATERIAL REQUISITIONS AND MILL TEST REPORTS AND ARE PROCEDURES USED TO ASSURE COMPLIANCE BOTH IN HOUSE AND ON SUBLET-		
		DRAFTING WORK?	01234	
Q.				
			H. 1	

Inspector_

Date

Plant_

CATEGORY	: II	INSPECTION-E	VALUATION CHECK LIST	Rating	Explanation
B. ENG	SINEERING AND I	RAFTING (Contin	nued)		
- 3.	Procedures (Co	ntinued)			
. 1.			ribution and revision op force and quality	0 1 2 3 4	
k.		coordinating rection require	drafting procedures ments.	01234	
l.	REVIEW AND CO	NTROL OF DESIGN	OCEDURE FOR RECEIPT N AND REVISIONS AND ARE N IN HOUSE AND SUBLET WOR	к. <u>01234</u>	
m.		ove by persons	or acknowledgement of responsible for	01234	
4. <u>Fa</u>	cilities and E		F SPECIFICATIONS IN-		
	CLUDING:	ENOT PEDICINE			
	AWS	M			
	AIS	Quality Criter Guide to Shop Steel Construc	Painting tion Manual		
	SSF	Structural Ste	el Detailing	01234	
ь.	Legible shop	prints provide	d.	01234	
ů.					
í					
				•	
Plant			Inspector	Date	

Inspector

Date

Date___

OPE	RATI	ONS		
1.	Po1	icy Statement		
	a.	Does this statement affirm Company policy - "To manufacture from approved shop detail drawings and procedures and ship a finished product in accordance with contract docu- ments and specifications"?	0 1 2 3	4
	b.	Is there an adequate policy for resolving controversy between Operations and Quality Control on nonconforming items.	0 1 2 3	4
	c.	Does the company policy statement indicate a recognition of separation of Production responsibility from Quality Control responsibility?	01234	·
	d.	Are these policies known and disseminated to supervisory personnel as reflected by general attitude and awareness of quality assurance requirements.	01234	
2.	Org	anization and Personnel		
	a.	Does organization chart show clearly lines of responsibility and authority?	01234	
	b.	Job descriptions available and adequate.	01234	
	с.	Supervisors qualified by experience and/ or education.	01234	
	d.	DOES THE FABRICATOR HAVE A COMPETENT WELDING TECHNICIAN OR SUPERINTENDENT OR AN OUTSIDE EXPERT AVAILABLE ON CALL ?	0 1 2 3 4	
	e.	Does this person have the authority to control welding procedures in the shop?	01234	
	f.	WELDERS CERTIFIED PER A.W.S.	01234	
	g.	DOES THE FABRICATOR HAVE A WELDER IDENTIFI- CATION SYSTEM?	0 1 2 3 4	
	h.	SHOP SUPERVISION CONVERSANT WITH CURRENT WORKMANSHIP PROVISIONS OF AWS AND AISC SPECIFICATIONS.	01234	

_____Inspector____

Plant	Inspector	Date

0 1 2 3 4

x. FLUX AND ROD OVENS ADEQUATE AND OPERATING

PER AWS LATEST ADOPTION.

AIEGUKI:	-1	INSPECTION-EVALUATION CHECK LIST	Rating	Explanation
OPERAT:	IONS (c	ontinued)		
3. Pro	ocedures	(continued)		
* b.	Fabric	ation (continued)		
	xi.	RECORD OF WELDER QUALIFICATIONS AND WELDER IDENTIFICATION SYSTEM MAIN-		
		TAINED IN THE SHOP.	01234	
	xii.	Welders clean slag and check their welds.	01234	
	xiii.	Welders identify welds they make.	01234	
	xiv.	Checking of workmanship throughout the		
		process to conform to contract documents and specifications.	01234	
	xv.	PROPER BOLT TIGHTENING PROCEDURES USED PER RCRBSJ SPECIFICATIONS.	01234	
	xvi.	Program for calibrating tools, gauges ard apes used in production.	01234	
	xvii.	When and if required by contract documents is there a procedure to maintain records of lot number identity of bolts and rivets		
		used in fabrication.	01234	
c.	Clean	and Paint		
	í.	Pre-blasting or post-blasting equipment. (May be NA depending upon type of work)	01234	
	ii.	Provisions for control of surface preparation in accordance with SSPC standards.	01234	
	iii.	Provision for adequate agitation, temperature control and methods of paint applica-		
		tion.	01234	
·	iv.	Provision for wet and dry film measure- ment control.	01234	
ant		Inspector	Date_	

CATEGORY	: 11		INSPECTION - EVALUATION CHECK LIST	Rating	Explanation
D. OPE	RAT	IONS (continued)		
3.	Pro	ocedure	es (continued)	÷	
:	d.		ective Action		
		1.	Procedure for correcting nonconforming material or work in process rejected by the Quality Control forces.	01234	
		ii.	Does this procedure assure the level of authority is commensurate with the problem?	01234	
		iii.	System used to indicate conforming or nonconforming work in progress.	01234	
		iv.	Does the procedure include provision for action to avoid future nonconforming work?	0 1 2 3 4	
	e.	Ship	ping		
			Provisions for suitable loading, blocking and bracing for shipment.	01234	
	f.	Main	tenance		
		i.	EQUIPMENT AND TOOLS PERIODICALLY INSPECTED TO INSURE ACCEPTABLE PERFORMANCE.	01234	
		ii.	WELDING MACHINES PERIODICALLY CHECKED TO INSURE CORRECT AMP AND VOLT READINGS.	01234	
		iii.	Plan for systematic maintenance of equipment equipment.	01234	
*					
٠					
Plant			Inspector	Date	

CATEGO	RY:	II INSPECTION-EVALUATION CHECK LIST	Rating	Explanation
D. OPI	ERATI	ONS (continued)		
7.				
. 4	. Fa	cilities and Equipment for Fabrication		
	а.	Does fabricator have automatic or semi-automati equipment for making continuous welds, etc?	0 1 2 3 4	
	ь.	Manual welding equipment in use in acceptable operating condition.	01234	
	с.	Does fabricator have mechanically-guided burning equipment?	01234	
	d.	Does fabricator have a wheelblast or sandblast equipment? (May be NA)	01234	
	e.	and other painting equipment?	01234	
	f.	If fabricator is involved in riveting, metali- zing and stud welding, is his equipment adequate (May be NA depending on type of work)	01234	
	g.	Does fabricator have adequate and accurate hole- making equipment? (Punches and Drills)	01234	
	h.	Does fabricator have adequate and accurate cut- ting and finishing equipment? (Shears, saw, milling machine, planer and/or grinder)	01234	
	i.	Housekeeping adequate.	01234	
	j.	Air supply adequate.	01234	
	k.	Electrical supply adequate.	01234	
· · · · · · · · · · · · · · · · · · ·				
Plant _		Inspector	Date	

CAT	EGO	RY: II INSPECTION-EVALUATION CHECK LIST	Danie.	FC 2.1-73
		INSPECTION-EVALUATION CHECK LIST	Rating	Explanation
E.	QU	ALITY CONTROL		
1.	Pol	licy Statement		
	a.	Does this statement affirm that the Company policy		
	· .	is "To provide the inspection and control pro- cedures to assure that the fabricated product is		
		in accordance with contract documents and specifications?"	01234	
			01234	
	ъ.	Does policy indicate a recognition of separation		
		of Quality Control responsibility from Production responsibility?	010.4	
		responsibility.	01234	
	c.	Is there a written Quality Assurance Program and is in		
		disseminated as reflected by general attitude and	01234	i distribution di
		awareness of Quality Assurance requirements.		
2.	Org	anization and Personnel		
	a.	Does the Quality Control Organization include		
		a qualified Quality Control Supervisor?	01234	<u> </u>
	ь.	Qualified testing service available and used if required.	01234	
			01234	
	c.	ARE THERE QUALIFIED SHOP INSPECTORS?	0 1 2 3 4	
	d.	Does the Quality Control Organization include at		
		least one qualified in-house Magnetic Particle Inspection To hnician?	01234	
			01234	
	e.	Does organization chart show lines of communication and responsibility?	0 1 2 3 4	
	f.	Program for training shop inspectors.	0 1 2 3 4	
	g.		01234	
	0,	Separation of Quality Control Organization from Production Organization below the Plant Manager		
		clearly shown?	01234	
	h.	Does the Quality Control Organization include at		
	4	least one certified in-house Ultrasonic Testing Technician?	0 1 2 3 4	
			01234	-
Plan	it _	Inspector	Date	

Date ____

CATI	EGORY:	II INSPECTION-EVALUATION CHECK LIST	Rating	Explanation
Ε.	QUALI	TY CONTROL (continued)		
	3. P1	rocedures		
		CONTRACT SPECIFICATIONS AND SPECIAL PROVISIONS ON FILE.	01234	
	ь.	DOES QUALITY CONTROL HAVE AUTHORITY TO STOP AND RESPONSIBILITY TO INFORM OPERATING SUPERVISION ON NONCONFORMING WORK?	01234	
	с.	Is a check made to ensure that approved welding procedures are disseminated and followed in the shop?	01234	
	d.	Required records maintained: Of Heat Numbers and material test reports for special requirements.	01234	
	e.	Required records maintained of N.D.T. Reports.	01234	
	f.	RECORD OF QUALIFIED WELDERS ON FILE.	01234	
	g.	An adequate in-process inspection procedure.	0123.	
	h	Adequate procedure for handling nonconforming material.	01234	
	i.	Adequate procedures for liason with outside inspectors.	01234	
	j.	Do all pieces receive a final inspection and is a record kept of this inspection?	01234	
	k.	Procedures for calibrating tapes, N. D. T. equipment, paint gauges and a record kept.	01234	
	l.	P edures for shop inspector qualifications.	01234	
	m.	Record kept of all inspections, such as by noted detail drawings.	01234	
	n.	Does an inspector check surface preparation prior to painting.	01234	
	٠.	Does an inspector check painting?	01234	
	p.	A Quality Control procedure manual.	01234	

Inspector

Plant

GORY: 1	I INSPECTION-EVALUATION CHECK LIST	Rating Explanation
QUALITY	CONTROL (continued)	
1	ilities and Equipment	
a.	A CURRENT LIBRARY OF SPECIFICATIONS, INCLUDING:	
	AWS	
	AISC	
	Quality Control	
	Guide to Shop Painting	
	ASTM	
	ASNDT	0 1 2 3 4
	SSPC	
	TOTAL POLICE POLICE POLICE POLICE	
ь.	DO THE INSPECTORS HAVE THE FOLLOWING EQUIPMENT	
	AVAILABLE?	
	Tapeline	
	Welding Gauges	
	Tag System	
	Paint Gauge	01234
c.	The following equipment available.	
	X-7ay Ultrasonic	
	Magnetic Particle	
	Isotope	0 234
	Dye Penetrant	0 234
d.	Reference standards for periodically calibrating	ng:
	Paint Gauges	
	Tapeline	
	N.D.T. Equipment	01234
	Torque Wrenches	01234
		0 1 2 3 4
e	. Office space for outside inspectors.	
4		
		Date
Plant	Inspector	

4 .

FC 2.1-75

INSPECTION - EVALUATION - EXIT INTERVIEW

REPORT OF RATED ITEMS WITH LESS THAN 2 RATING WHICH INDICATES AN OMISSION OR A DEFICIENCY.

THE INSPECTION - EVALUATION TEAM WILL LIST AND EXPLAIN THE REASON FOR ANY RATED ITEM WITH A RATING LESS THAN 2.

FUNCTION

- A. GENERAL MANAGEMENT
- B. ENGINEERING & DRAFTING

- C. PROCUREMENT
- D. OPERATIONS

E. QUALITY CONTROL

Plant Inspector Date

AMERICAN INSTITUTE OF STEEL CONSTRUCTION

QUALITY CERTIFICATION PROGRAM

CATEGORY: II

INSPECTION - EVALUATION REPORT

Check One

Initial Certification Renewal (2nd or 3rd year) Renewal (1st year of new cycle)

Surveyed By:	Date:	
Street Address:	City/State:	Zip:
ersons Contacted:		
ame: 1.	3	5
itle:		
	4	
Certification recom		
Certification not r	ecommended	
Certification not r	ecommended indicate reason(s):	
Certification not r		
Certification not r If not recommended,		

Date

CATEGORY: II

Plant

INSPECTION - EVALUATION REPORT

SUMMARY RATING OF GENERAL MANAGEMENT 1 . Relative % Weight Rating per for each Segment Al. Policy Statement Segment X 15% total points number of rated items Organization & Personnel A2. 30% total points number of rated items Procedures A3. X 20% total points number of rated items Facilities & Equipment A4. 10% total points number of rated items Record A5. X 25% total points number of rated items 100% Summary Rating of General Management: Check One - Approved Disapproved

Inspector

CATEGORY: II

INSPECTION - EVALUATION REPORT

SUMMARY RATING OF ENGINEERING/DRAFTING

lant _	Inspector		Wales.	THE HOLD	Date
•					Disapproved
4					Approved
					Check One
Summary	Rating of Engineering/Drafting:		100%		
	number of rated items				
	total points	х	10%		
в4.	Facilities & Equipment				
	number of rated items	х	40%		
вз.	Procedures				
	number of rated flams	x	40%		
B2.	Organization & Personnel				
	number of rated items	х	10%		
B1.	Policy Statement		tive % We each Segn		Rating per Segment

INSPECTION-EVALUATION REPORT

SUMMARY RATING OF PROCUREMENT

£1.	Policy Statement	Relative % We for each Segr	eight ment	Rating per Segment
	number of rated items	X 10%		
C2.	Organization & Personnel			
	number of rated items	X 30%	-	
С3.	Procedures			
	number of rated items	X 50%		
C4.	Equipment & Facilities			
	number of rated items	X 10%	-	
Summary	Rating of Procurement:	100%		
				Check One
ů.				Approved
٠				Disapproved
			ė	
Plant	Inspector			Date

CATEGORY: II

INSPECTION - EVALUATION REPORT

SUMMARY RATING OF OPERATIONS

ant	1	Inspector				Date
						Approved Disapproved
						Check One
ummary	Rating of Operations			100%		
	total points number of rated items		x	20%	•	
	Facilities & Equipment					
	total points number of rated items		x	35%		
3.	Procedures					
	total points number of rated items		x	35%	•	-
2.	Organization & Personne	21				
	total points number of rated items		х	10%		
21.	Policy Statement		for	each S	Weight	Rating per Segment

INSPECTION - EVALUATION REPORT

SUMMARY RATING OF QUALITY CONTROL

Eì.	Policy Statement		Rela for	tive % We each Segm	eight	Rating per Segment
	number of rated items		x	5%		
E2.	Organization & Personnel					
	total points number of rated items		x	40%		
E3.	Procedures					
	total points number of rated items		x	50%		
E4.	Equipment & Facilities					
	total points number of rated items		x	5%		
Summary	Rating of Quality Control			100%		
						Check One
9						Approved
•						Disapproved
Plant	I	nspector _				Date

INSPECTION - EVALUATION REPORT

OVERALL RATING OF TOTAL OPERATION

		SUMMARY RATING		(LGHT	WEIGHTED RATING
FUNC	TION	RATING			
Α.	General Management		х	10%	
в.	Engineering/Drafting		х	15%	
c.	Procurement		Х	10%	
D.	Operations		х	40%	
E.	Quality Control		х	25%	
	Overall Rating of Total Operation			100%	

RATING OF ESSENTIAL ITEMS

ITEM	RATING	ITEM	RATING	ITEM	RATING	ITEM	RATING	ITEM	RATING
		B2a		СЗа		D2d		E2c	
Ala				C3h		D2f		E3a	
Alb		B2j		C3i		D2g		E3b	
Alc		B2k				D2h		E3f	
A3a		ВЗа		C3j		D3a 1		E4a	
A3b		B3b						E4b	
		ВЗс				D3a ii		240	
		B3d				D3b ii			
		B3i				D3b iv			
		B3&				D3b v			
		B4a				D3b ix			
						D3b x			
						D3b xi			
						D3b xv			
						D3f i			
- 6						D3f ii			
						231 11		Check One	
								Approved	
								Disapprov	red

	T	Date	
Plant	Inspector		

APPENDIX - C

AMERICAN INSTITUTE OF STEEL CONSTRUCTION SUPPLEMENTAL QUALITY CERTIFICATION INSPECTION EVALUATION CHECK LIST

AUXILIARY AND SUFFORT STRUCTURES

FOR

NUCLEAR POWER F. ANTS

PLANT	
INSPECTOR	
ATE	

AISC SUPPLEMENTAL QUALITY CERTIFICATION FOR AUXILIARY AND SUPPORT

STRUCTURES FOR NUCLEAR POWER PLANTS

The fabricators quality assurance manual, which must be submitted upon application for certification, will be choroughly reviewed by AISC's independent consulting firm prior to scheduling the plant inspection-evaluation Any required clarification or modification must be completed prior to the scheduling of the plant audit.

RATING PROCEDURE

Each item on the Inspection-Evaluation Check List will be rated satisfactory (s), Not Applicable (NA), or Unsatisfactory (X) on the following basis:

- (S) SATISFACTORY: Complies with minimum requirements
- (NA) NOT APPLICABLE: Certain items on the Inspection-Evaluation Check List may not be appropriate for the plant being certified, and should not be rated.
 - (X) UNSATISFACTORY: No effective compliance

REQUIRED FOR CERTIFICATION

Each item on the Inspection-Evaluation Check List must be rated Satisfactory (S), or Not Applicable (NA) to achieve certification.

At its absolute discretion the Inspection-Evaluation team has the authority to conditionally accept the plant, provided minor difficiencies are corrected within a reasonable period of time.

AISC NUCLEAR CERTIFIC ION PROGRAM EVALUATION/AUDIT CHECKLIST

ITEM NO.	REQUIREMENT	QA MANUAL REFERENCE	or NA	COMMENTS	
1.0	ORGANIZATION				
1.1	Does the Quality Assurance Manual include an organizational chart showing titles of the various positions and the lines of authority?				
1.2	Does the organizational chart agree with lines of authority actually in existence?				
1.3	Does the program designate the person with overall responsibility for Quality Assurance?				
1.4	Is this person independent from the pressures of production?				
1.5	Does he report to an organizational level where appropriate management action may be taken?				

NUCLEAR CERTIFIC ON PROGRAM EVALUATION/AUDIT CHECKLIST

S,X,

QA MANUAL

ITEM NO.	REQUIREMENT	REFERENCE	or NA	COMMENTS	
1.0	ORGANIZATION (Cont'd)				
1.6	Do the personnel perform- ing the quality functions have sufficient authority and freedom to;				
	a) identify quality problems,				
	 b) initiate, recommend, or provide solution, through designated channels, 				
	 c) control further processing of a nonconforming item until proper disposition has been made, 				
	d) Verify implementation of problem solutions.				
1.7	Are the functions such as auditing, inspection, and testing performed independent of those performing the activity?				

EVALUATOR

PLANT

NUCLEAR CERT ICATION PROGRAM EVALUATION/AUDIT CHECKLIST

ITEM NO.	REQUIREMENT	QA MANUAL REFERENCE	S,X, or NA	COMMENTS	
2.0	QUALITY ASSURANCE PROGRAM				
2.0	QUALITY ASSURANCE PROGRAM				
2.1	Has the fabricator established his Quality Assurance Program documented with written policies, procedures and instructions?				
2.2	Does the Quality Assurance Manual contain a statement of policy signed by management?				
2.3	Does the Quality Assurance Manual identify the authority and responsibility of the various personnel and organizations?				
2.4	Have personnel performing activities affecting quality received training and indoctronation in the program?				
2.5	Does management regularly review the status and adequacy of the quality assurance program?				

PLANT

SVALUATOR

NUCLEAR CERTIFIC ION PROGRAM
EVALUATION/AUDIT CHECKLIST

ITEM NO. REQUIREMENT REFERENCE OF NA COMMENTS

3.0 DESIGN - NOT APPLICABLE

PLANT

AISC NUCLEAR CERTIFICATION PROGRAM EVALUATION/AUDIT CHECKLIST

ITEM NO.	REQUIREMENT	QA MANUAL REFERENCE	S,X, or NA	COMMENTS	
4.0	PROCUREMENT DOCUMENT C	CONTROL			
4.1	Are procedures establi do written instruction to insure that the fol quality requirements we noted on procurement de	ns exist lowing vill be			
4.1.1	That this material is Category I-Nuclear Con				
4.1.2	Special technical requireferenced (test and in requirements, and any special instructions).	inspection other			

EVALUATOR

PLANT

NUCLEAR CERTICATION PROGRAM EVALUATION/AUDIT CHECKLIST

ITEM NO.	REQUIREMENT	QA MANUAL REFERENCE	S,X, or NA	COMMENTS	
4.0	PROCUREMENT DOCUMENT CONTROL (Cont'd)				
4.1.3	Provision for access to the plant facilities and records for source inspection and audit when the need for inspection or audit has been determined.				
4.1.4	Records to be prepared, maintained, submitted, or made available for review and instructions provided on r cord retention and disposition.				
4.1.5	Provisions for extending applicable requirements of procurement documents to lower tier subcontractors and suppliers.				
4.2	Are changes in procurement documents subject to the same degree of control as was utilized in the preparation of the original contract document?				

EVALUATOR

PLANT

NUCLEAR CERTICATION PROGRAM
EVALUATION AUDIT CHECKLIST

ITEM NO.	REQUIREMENT	QA MANUAL REFERENCE	s,x, or NA	COMMENTS
4.0	PROCUREMENT DOCUMENT CONTROL (CONT'D)			
4.3	Does the system provide for review, by a Quality Assurance designee, of procurement documents prior to release?			

PLANT

SYALUATOR

NUCLEAR CERTIFICATION PROGRAM EVALUATION/AUDIT CHECKLIST

ITEM NO.	REQUIREMENT	QA MANUAL REFERENCE	S,X, or NA	COMMENTS	
5.0	INSTRUCTIONS, PROCEDURES AND DRAWINGS				
5.1	Are activities affecting quality controlled by instructions, procedures, or drawings?				
5.2	Do instructions, procedures or shop drawings convey the acceptance criteria specified in the contract documents?				

NUCLEAR CERTIF ATION PROGRAM EVALUATION/AUDIT CHECKLIST

ITEM NO.	PEQUIREMENT	QA MANUAL REFERENCE	S,X, or NA	COMMENTS	
6.0	DOCUMENT CONTROL				
6.1	Are written procedures established for issuance of the Quality Assurance Manual, instructions, procedures and drawings, and changes thereto?				
6.2	Are documents, including changes, reviewed for adequacy and signed off prior to release by authorized personnel?				
6.3	Are changes to documents reviewed and signed off by the same department that performed the original review?				
6.4	Do procedures control the receipt and distribution of design drawings, contract documents and changes?				
6.5	Do procedures assure that th latest applicable drawings, specifications and instructions are being used?				

PLANT

DATE

EVALUATOR_

NUCLEAR CERTIFICION PROGRAM EVALUATION/AUDIT CHECKLIST

ITEM NO.	REQUIREMENT	QA MANUAL REFERENCE	S,X, or NA	COMMENTS	
6.0	DOCUMENT CONTROL (CONT'D)				
6.6	Is the distribution for each document defined?				
6.7	Are there procedures to control both in-house and sub-contracted shop drawings?				
6.8	Are documents distributed to and used at the location where they apply?				

PLANT EVALUATOR DATE

NUCLEAR CERTIFICION PROGRAM EVALUATION/AUDIT CHECKLIST

ITEM NO.	REQUIREMENT	QA MANUAL REFERENCE	S,X, or NA	COMMENTS	
7.0	CONTROL OF PURCHASED MATERIAL, EQUIPMENT, AND SERVICES				
7.1	Is there a list of approved vendors?				
7.2	Is responsibility for pre- paring and maintaining the list defined?				
7.3	Are suppliers approved on the basis of one of the following? a. Historical or current quality performance data for the items to be furnished? b. Source evaluation or survey				
	conducted by trained personnel. c. Customers prior approval of the vendor. d. AISC Certification of the vendor.				

EVALUATOR_____DATE_

NUCLEAR CERTIFICTION PROGRAM EVALUATION/AUDIT CHECKLIST

ITEM NO.	REQUIREMENT	QA MANUAL REFERENCE	S,X, or NA	COMMENTS	
7.0	CONTROL OF PURCHASED MATERIAL EQUIPMENT, AND SERVICES. (Cont'd)				
7.4	Where a level of certification is required by contract documents is sublet fabrication awarded to fabricator holding appropriate certification?				
7.5	Is there documented evidence on hand to substantiate the approval of each supplier?				
7.6	Is there a procedure for maintaining an approved vendors list?				
7.7	Are purchased items compared to procurement documents upon receipt to verify conformance?				
7.8.	Is source inspection or audit used when conformance cannot be verified by receipt inspection or test repor				

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NUCLEAR CERTIFATION PROGRAM EVALUATION/AUDIT CHECKLIST

ITE	M NO.	REQUIREMENT	QA MANUAL REFERENCE	S,X, or NA	COMMENTS	
7.0		CONTROL OF PURCHASED MATERIA EQUIPMENT, AND SERVICES (CONT				
7	-9	Are accepted items disting- uished from items awaiting acceptance?				
7	.10	Are rejected items identifie and controlled?	d			
7	.11	Are certified Mill Test Reports or other documenta- tion reviewed and signed off by authorized personnel prior to shipment?				

PLANT_______DATE______

NUCLEAR CERTIFIC ION PROGRAM EVALUATION/AUDIT CHECKLIST

ITEM NO.	REQUIREMENT	QA MANUAL REFERENCE	S,X, or NA	COMMENTS	
8.0	IDENTIFICATION AND CONTROL OF MATERIALS, PARTS, AND COMPONENTS.				
8.1	Does the fabricator have a system to supply collective traceability of material?				
8.2	Are materials, parts, and components requiring identi-fication throughout fabrication defined by instructions procedures or drawings?	*			
8.3	Are there identification and control measures to prevent the use of incorrect or defective material, parts, and components?				
8.4	Where identification marking is employed is the marking cle unambiguous, and applied in such a manner as not to affect the function of the item?				

PLANT_____EVALUATOR______DATE____

NUCLEAR CERTIFIC ION PROGRAM EVALUATION/AUDIT CHECKLIST

ITEM NO.	REQUIREMENT	QA MANUAL REFERENCE	S,X, or NA	COMMENTS	
8.0	IDENTIFICATION AND CONTROL OF MATERIALS, PARTS, AND COMPONENTS. (CONT'D)				
8.5	Does the traceability system provide maintenance of identification when pieces are sub-divided?				
8.6	Unless other means of identi- fication are used, are provisions made to assure that the marking is not obliterated or hidden by surface treatment or coatings?				

PLANT______DATE_____

NUCLEAR CER FICATION PROGRAM EVALUATION AUDIT CHECKLIST

ITEM NO.	REQUIREMENT	QA MANUAL REFERENCE	S,X, or NA	COMMENTS	
9.0	CONTROL OF SPECIAL PROCESS				
9.1	Are approved welding procedures available at the work place?				
9.2	is there written procedure for storage and control of welding electrodes in accord- ance with AWS DI.1?				
9.3	Are welders qualified in accordance with the provisions of AWS DI.1?				
9.4	Are the records of qualified welders current with the time period of AWS DI.I and are they on file?				
9.5	Does the fabricator have a demonstrated system available by which weld joints are identified as to the welder who performed the welding by by acceptable means such as die stamping, travelers, or indelible				
	marking, if required by the contract documents?			*****	

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NUCLEAR CER VICATION PROGRAM EVALUATION AUDIT CHECKLIST

ITEM NO.	REQUIREMENT	QA MANUAL REFERENCE	S,X, or NA	COMMENTS
9.0	CONTROL OF SPECIAL PROCESS (CONT'D)			
9.6	Are heat treating procedures for stress relieving purposes available when applicable and are appropriate records maintaned?			
9.7	Do procedures provide for pre-heating in accordance with AWS Dl.1?			
9.8	Is there a written procedure for each applicable non-destructive testing method (Radiography, Ultrsonic testing, Magnetic Particle, Dye Penetrant) in accordance with AWS D1.1?			
9.9	Are qualifications of NDE personnel in accordance with ASNT and are they on file?			
9.10	Are visual standards and written procedures available for control of surface preparation in accordance with SSPC or other specified standards?			
9.11	Are measurement devices and written procedures available and in use to control film thickness of protective coatings?			

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NUCLEAR GER FICATION PROGRAM EVALUATION RUDIT CHECKLIST

	ITEM NO.	REQUIREMENT	QA MANUAL REFERENCE	S,X, or NA	COMMENTS	
9.0		CONTROL OF SPECIAL PROCESS (CONT'D)				
	9 12	Are agitators, spray or other application equipment, surface thermometers, psychrometers or humidity gages, available and in use in the control of coating application when required?				
	9.13	Are records maintained of cleaning inspection, handling of coatings, film thickness and surface quality inspection, and temperature, humidity and dewpoint at time of coating application when required?				

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NUCLEAR CERTIFIC ION PROGRAM EVALUATION/AUDIT CHECKLIST

ITEM NO.	REQUIREMENT	QA MANUAL REFERENCE	S,X, or NA	COMMENTS
10.0	INSPECTION			
10.1	Is the inspection program documented by written instructions and procedures?			
10.2	is there an inspection of all fabricated pieces?			
10.3	Is the work inspected in process where quality cannot be verified in the final inspection?			
10.4	Are records of inspections maintained?			
10.5	Do these records include the date, inspector identification and acceptance/rejection of inspection?			

PLANT____EVALUATOR_____DATE____

NUCLEAR CERTIFIC ION PROGRAM EVALUATION/AUDIT CHECKLIST

ITEM NO. REQUIREMENT REFERENCE OF NA COMMENTS

11.0

TEST CONTROL - (NOT APPLICABLE FOR FABRICATED STRUCTURAL STEEL)

PLANT ____EVALUATOR______DATE_____

NUCLEAR CERTIFICATION PROGRAM EVALUATION/AUDIT CHECKLIST

ITEM NO.	REQUIREMENT	QA MANUAL REFERENCE	S,X, or NA	COMMENTS	
12.0	CONTROL OF MEASURING AND TEST EQUIPMENT				
12.1	Are written procedures in effect defining methods for calibration of all tools, gauges, instruments, or other devices used as acceptance criteria?				
12.2	Are these tools, gauges, instruments or other devices suitable within the frame work of normal fabricating practice to verify conformance to established contract requirements?	e b-			
12.3	Is the inspection, measuring and test equipment adjusted and maintained at specified intervals, or prior to use, when required, against certified equipment having known valid relationships to nationally recognized standards?				

PLANT ____EVALUATOR______DATE_____

NUCLEAR CERTIFIC ION PROGRAM EVALUATION/AUDIT CHECKLIST

ITEM NO.	REQUIREMENT	QA MANUAL REFERENCE	or NA	COMMENTS	
12.0	CONTROL OF MEASURING AND TEST EQUIPMENT (CONT'D)				
12.4	Are calibration records maintained and validated by authorized personnel, and is equipment suitably identified to indicate the calibration status?				

NUCLEAR CERTIFICATION PROGRAM EVALUATION/AUDIT CHECKLIST

ITEM NO.	REQUIREMENT	QA MANUAL REFERENCE	S,X, or NA	COMMENTS	
13.0	HANDLING, STORAGE & SHIPPING				
13.1	Is marking or tagging of items kegs, drums, and boxes adequate to identify shipping pieces and maintain identification throughout shipment?				
13.2	Does the fabricators system provide for written instructions for handling, preservation, or loading of material to minimize damage in shipment or storage?				

NUCLEAR CERTIFICION PROGRAM EVALUATION/AUDIT CHECKLIST

ITEM NO.	REQUIREMENT	QA MANUAL REFERENCE	s,x, or NA	COMMENTS	
14.0	INSPECTION, TEST, AND OPERATING STATUS - (TEST AND OPERATING STATUS ARE NOT NORMALLY APPLICABLE TO STRUCTURAL STEEL).				
14.1	Is inspection status identified by either: a. Tagging b. Marking c. Shop Travelers				
	d. Inspection Records				
14.2	Is authority for appli- cation and removal of such identification defined in writing?				
14.3	Is this authority understood and recognized by all parties?				
14.4	Are non-conforming items identified and properly marked to prevent inadverten shipment?	t			

NUCLEAR CERTIFIC ION PROGRAM EVALUATION/AUDIT CHECKLIST

ITEM NO.	REQUIREMENT	QA MANUAL REFERENCE	S,X, or NA	COMMENTS	
15.0	NON-CONFORMING MATERIALS, PARTS, OR COMPONENTS.				
15.1	Are there procedures for identifying, controlling and dispositioning of non-conforming material?				
15.2	Do these procedures control materials, parts, or components which do not conform to require- ments in order to prevent their inadvertent use or shipment?				
15.3	Is the responsibility and authority for disposition of non-conforming items defined in the Q.A. Manual or procedures.				
15.4	Have affected personnel been trained in non-conformance procedures?				
15.5	Do inspection records indicate non-conforming material?				
15.6	is non-conforming material controlled by marking or segregating until disposition is made?				

PLANT _____EVALUATOR______DATE_____

NUCLEAR CERTIF ATION PROGRAM EVALUATION/AUDIT CHECKLIST

ITEM NO.	REQUIREMENT	QA MANUAL REFERENCE	S,X, or NA	COMMENTS	
15.0	NONCONFORMING MATERIALS, PARTS OR COMPONENTS (Cont'd)				
15.7	Are non-conforming items reviewed and accepted, rejected, repaired or reworked in accordance with documented procedures?				
15.8	Are there provisions to control further process-ing, delivery or use of a non-conforming item pending decision on disposition?				
15.9	Does the system require documentation verifying the acceptability of non-conforming items which have the disposition of "repair" or "use as is"?				
15.10	Are materials that are reworked or repaired to an approved variation inspected to determine compliance with disposition?				
15.11	Are customer approved as-built (reworked, repaired or accepted) as is) variations documented?				

NUCLEAR CERTIF ATION PROGRAM EVALUATION/AUDIT CHECKLIST

ITEM NO.	REQUIREMENT	QA MANUAL REFERENCE	S,X, or NA	COMMENTS	
15.0	NON-CONFORMING MATERIALS PARTS OR COMPONENTS (CONT'D)				
15.12	Are non-conformance categories which are to be reported to the purchaser clearly defined?				
15.13	Does the program define the level of authority for resolving non-conforming items?				
15.14	Are non-conformance reports or summaries regularly reviewed be responsible management?	у			

PLANT ____EVALUATOR______DATE______

NUCLEAR CERTICATION PROGRAM EVALUATION/RODIT CHECKLIST

ITEM NO.	REQUIREMENT	QA MANUAL REFERENCE	S,X, or NA	COMMENTS	
16.0	CORRECTIVE ACTION				
16.1	Does the system assure conditions adverse to quality are promptly identified and corrected?				
16.2	Are there provisions for analysis and evaluation to deter- mine the cause of the significant conditions adverse to quality?				
16.3	Are there provisions for reporting significant conditions adverse to applity to management and has management approved the corrective action taken?				
16.4	Has implementation of corrective act been verified by the responsible party?	i on			

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NUCLEAR CERTIFICION PROGRAM EVALUATION/AUDIT CHECKLIST

ITEM NO.	REQUIREMENT	QA MANUAL REFERENCE	s,x, or NA	COMMENTS	
17.0	QUALITY ASSURANCE RECORDS				
17.1	Are the records to be maintained clearly defined in writing, identifiable and retrievable?				
17.2	Are tracability records maintained?				
17.3	Are records maintained of N.D.E. reports?				
17.4	Are records kept of all inspections?				
17.5	Are the records main- tained, and if required, are duplicate records main- tained in another location?				
17.6	Is there a system for submittal of records to the customer if required?				

NUCLEAR CERTI ATION PROGRAM EVALUATION/AUDIT CHECKLIST

ITEM NO.	REQUIREMENT	QA MANUAL REFERENCE	S,X, or NA	COMMENTS	
8.0	AUDITS				
18.1	Are planned and documented internal audits carried out to verify compliance with the Quality Assurance Program?				
18.2	Are the audits performed in accordance with written procedures or check list, by trained personnel not having responsibility in the areas being audited?				
18.3	Are audit results documented and reviewed by management having responsibility in the area audited?				
18.4	Does responsible management take necessary action to correct deficiencies revealed by the audit?				
18.5	Are audit frequencies specified?				

PLANT_______EVALUATOR_______DATE_____

NUCLEAR CERTICATION PROGRAM EVALUATION/AUDIT CHECKLIST

ITEM NO.	REQUIREMENT	QA MANUAL REFERENCE	S,X, or NA	COMMENTS	
18.0	AUDITS (Cont'd)				
18.6	Are deficient areas re-audited until corrections have been made and has this been documented?				
18.7	Are Audits conducted when on or more of the following contions exist:				
	1. When sufficient time has elapsed after award of contract to allow implementation of Quality Assurance Program and it is appropriate to evaluate Quality Assurance Program for compliance to program description and requirement?				
	When significant changes are made in functional areas of Quality Assur- ance Program, including reorganization?				
	3. When it is suspected tha	nt			

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safety, performance, or reliability of the item is in jeopardy due to deficiencies and non-

Assurance Program.

conformance in the Quality

NUCLEAR CERTICATION PROGRAM EVALUATION/AUDIT CHECKLIST

ITEM NO.	REQUIREMENT	QA MANUAL REFERENCE	S,X, or NA	COMMENTS	
18.0	AUDITS (Cont'd)				
	Are Audits conducted when one or more of the following conditions exist? (Cont'd)				
	4. When a systematic, independent assessment of program effectiveness or item quality or both is considered necessary?				
	5. When it is necessary to verify implementation of required corrective action?				

PLANT ______ EVALUATOR ______ DATE____

AMERICAN INSTITUTE OF STEEL CONSTRUCTION

QUALITY CERTIFICATION PROGRAM

INSPECTION - EVALUATION REPORT

CATEGORY: NUCLEAR SUPPLEMENT

Check One

Initial Certification Renewal (2nd or 3rd year)

Renewal (1st year of new cycle)

Fabricator:			
Audited By:	Date:		
Street Address:	City/State:		Zip:
Persons Contact:			
Name: 1	_3	5	
Title:			
Name: 1	4	6	
Title:			
Certification recommended			
Certification not recommended			
If not recommended, indicate	reason(s):		
	Data		