

**Instructions:** Form must be completed by the Special Inspection Agency.

**FORM C**

Fabricator's Name: \_\_\_\_\_ Fabricator's number: \_\_\_\_\_ Date: \_\_\_\_\_

Plant Address: \_\_\_\_\_

Fabricator's Representative Name: \_\_\_\_\_ Title: \_\_\_\_\_

Fabricator's Representative E-Mail Address: \_\_\_\_\_

Phone Number: \_\_\_\_\_

**INSPECTION AGENCY**

**AGENCY'S NUMBER:** \_\_\_\_\_ **TIME IN:** \_\_\_\_\_ **TIME OUT:** \_\_\_\_\_

Inspector Name: \_\_\_\_\_ Phone Number: \_\_\_\_\_

E-Mail Address: \_\_\_\_\_

**COMMENTS PERTAINING TO THIS AUDIT**

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**INSPECTOR RECOMMENDATIONS**

- NEW CERTIFICATION AS CERTIFIED FABRICATOR OF \_\_\_\_\_
- RENEWAL OF CERTIFICATION
- APPROVED UPON CORRECTION OF FINDINGS
- DISAPPROVAL

**SPECIAL INSPECTOR SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**COMPLETE, SIGN, SEAL & DATE THIS FORM AND MAIL OR EMAIL TO THE CITY OF HOUSTON:**

Mr. Maher Khansa, P.E.

City of Houston-Building Code Enforcement-CACD, 1002 Washington Ave., Houston, Texas 77002

Email: maher.khansa@houstontx.gov

## AUDIT OF FABRICATION PRACTICES (GENERAL)

Fabricator's Name: \_\_\_\_\_ Fabricator's number: \_\_\_\_\_ Date: \_\_\_\_\_

A	GENERAL REQUIREMENTS	COMPLIANCE	COMMENTS
A-1	Is the Quality Control Manual fully documented and up to date?	YES NO	
A-2	Is the Quality Control Manual reviewed at least annually? Provide last review date: _____	YES NO	
A-3	Are there any revisions to the Quality Control Manual? Provide latest revision date: _____	YES NO	
A-4	Are there any key personnel changes since last inspection?	YES NO	
A-5	Are the annual inspections performed as required? Provide last inspection date: _____	YES NO	
B	ENGINEERING	COMPLIANCE	COMMENTS
B-1	The fabricator can demonstrate that there is either an in-house or an outside licensed engineer to perform necessary designs and/or to consult on technical questions.	YES NO	
B-2	The fabricator can demonstrate that there is an in-house or outside special process consultant for each special process performed (such as: welding, pre-tensioning, lamination, etc.).	YES NO	
B-3	The contract documents are reviewed to assure that all materials and processes are specified or indicated on the drawings or specifications.	YES NO	
B-4	The fabricator reviews the contract documents and structural/architectural drawings for correctness.	YES NO	
B-5	The fabricator has a process to review corrections and complex design problems encountered in the fabrication process.	YES NO	
B-6	The fabricator has personnel with adequate knowledge to provide answers to technical questions.	YES NO	
B-7	The fabricator has personnel with adequate knowledge of applicable material specifications.	YES NO	
C	DRAFTING	COMPLIANCE	COMMENTS
C-1	Shop drawings are property prepared.	YES NO	
C-2	The fabricator has personnel capable of supervising, evaluating, and coordinating shop drawing preparation and all shop drawings are reviewed for correctness.	YES NO	
C-3	The fabricator has an in-house capability of providing special details for the shop/plant to solve fabrication problems.	YES NO	
C-4	The shop drawings indicate materials to be utilized in the final structure.	YES NO	
D	DRAWING CONTROL	COMPLIANCE	COMMENTS
D-1	The fabricator can verify control of design drawings as follows: <input type="checkbox"/> receipt <input type="checkbox"/> on file <input type="checkbox"/> revisions	YES NO	
D-2	The fabricator can verify control of specifications and addendums.	YES NO	
D-3	The fabricator can demonstrate control of shop drawings: <input type="checkbox"/> receipt <input type="checkbox"/> on file	YES NO	
D-4	The Quality System Manual traces each phase from drawing preparation, to shop drawing, receipt, submittals for approval, approval, resubmittals and date sent to shop/plant for fabrication.	YES NO	

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Fabricator's Name: \_\_\_\_\_ Fabricator's number: \_\_\_\_\_ Date: \_\_\_\_\_

D-5	The fabricator can demonstrate control of revisions to shop drawings.	YES NO	
D-6	The fabricator can demonstrate control of obsolete shop drawings.	YES NO	
D-7	The drawing control system used is the one described in the Quality Control Manual.	YES NO	
<b>E</b>	<b>WORK ORDER – JOB CONTROL</b>	<b>COMPLIANCE</b>	<b>COMMENTS</b>
E-1	The fabricator has established a job control number/identification system for all work accepted.	YES NO	
E-2	All correspondence received is marked with its job identification mark.	YES NO	
E-3	Job correspondence is filed with the job files for that work.	YES NO	
E-4	All correspondence received is: <input type="checkbox"/> stamped received <input type="checkbox"/> dated & initialed	YES NO	
<b>F</b>	<b>MATERIAL PROCUREMENT</b>	<b>COMPLIANCE</b>	<b>COMMENTS</b>
F-1	Materials are procured by a purchase order or some other type of form that provides verification and documentation of the order.	YES NO	
F-2	All materials are ordered or procured to acceptable standards and/or specifications.	YES NO	
F-3	The material specifications are indicated/documentated on the purchase order/form used for materials procurement.	YES NO	
F-4	The procurement document states how the material shall be marked/identified.	YES NO	
F-5	The fabricator requires suppliers to furnish material certification reports on the procurement document.	YES NO	
F-6	The procurement documents specify that material test reports shall accompany material/subassembly delivery to the fabricator's facility.	YES NO	
F-7	The fabricator has documented the review of the quality status of suppliers on a regular basis.	YES NO	
F-8	The QA/QC manager has visited and/or reviewed subcontractors' fabrication and/or Quality Control System operations on a random basis where applicable.	YES NO	
<b>G</b>	<b>RECEIVING MATERIAL</b>	<b>COMPLIANCE</b>	<b>COMMENTS</b>
G-1	The fabricator is using a formal method for receiving materials/subassemblies.	YES NO	
G-2	The fabricator inspects all incoming materials arriving at the facility.	YES NO	
G-3	The fabricator has a material identification system to assure control of materials of different grades/sizes (as applicable).	YES NO	
G-4	Acceptance tolerances are available at the receiving inspection station.	YES NO	
G-5	Receiving inspections are documented.	YES NO	
G-6	The receiving inspector understand the company system for: <input type="checkbox"/> receiving materials <input type="checkbox"/> receiving subassemblies <input type="checkbox"/> acceptance/rejection of nonconforming materials and/or subassemblies <input type="checkbox"/> means of handling correctable nonconformities observed during the receiving inspection	YES NO	
G-7	The material identification process utilized provides for material traceability to the final product.	YES NO	

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H	HANDLING & STORAGE EQUIPMENT, FACILITIES AND PROCEDURES	COMPLIANCE	COMMENTS
H-1	The fabricator has adequate facilities, equipment and illustrated drawings or instructions available to indicate the proper way to: <ul style="list-style-type: none"> <li><input type="checkbox"/> handle materials in the plant</li> <li><input type="checkbox"/> store materials/subassemblies</li> <li><input type="checkbox"/> prevent material/subassembly deterioration</li> <li><input type="checkbox"/> provide correct storage for fabricated products</li> <li><input type="checkbox"/> handle fabricated products</li> </ul>	YES NO	
H-2	The fabricator is utilizing an adequate control process for stocked/stored materials.	YES NO	
I	NORMAL AND SPECIAL PROCESSES CONTROL	COMPLIANCE	COMMENTS
I-1	The fabricator is controlling normal and special production/work processes.	YES NO	
I-2	Acceptance standards are readily available or posted near work stations for reviewing by production personnel and inspection personnel.	YES NO	
I-3	Sufficient work instructions are available to production personnel at each work station.	YES NO	
I-4	Fabricator is utilizing established qualification standards for special work processes (such as welding, strand tensioning, laminating and so on).	YES NO	
I-5	Qualifications for personnel performing special work processes are available or posted and maintained up-to- date, readily available to production supervisors and quality control personnel.	YES NO	
I-6	Special process personnel have been assigned identification symbols to identify work performed by them.	YES NO	
I-7	The assigned identification symbols for special process personnel are readily available or have been posted for use by Quality Control inspectors.	YES NO	
I-8	Special process personnel identify work they performed.	YES NO	
I-9	Key inspections by production personnel are documented.	YES NO	
I-10	All inspections are documented.	YES NO	
I-11	The fabricator can demonstrate the system utilized for: <ul style="list-style-type: none"> <li><input type="checkbox"/> minor repairs</li> <li><input type="checkbox"/> major repairs</li> <li><input type="checkbox"/> documentation of re-inspection of repairs</li> </ul>	YES NO	
I-12	The fabricator can demonstrate system for rejection and disposal of non-repairable nonconformities.	YES NO	
I-13	The fabricator can demonstrate that surveillance of stored fabricated products is performed on a routine scheduled basis.	YES NO	
I-14	Fabricated products are stored on a hard compacted well drained surface.	YES NO	
J	EQUIPMENT CONTROL & MAINTENANCE	COMPLIANCE	COMMENTS
J-1	The fabricator can demonstrate that each piece of equipment in the plant: <ul style="list-style-type: none"> <li><input type="checkbox"/> is acceptable or not acceptable for use</li> <li><input type="checkbox"/> is documented on the equipment</li> <li><input type="checkbox"/> is on a maintenance program</li> <li><input type="checkbox"/> is listed on a maintenance log</li> <li><input type="checkbox"/> has been calibrated within an acceptable established time frame where applicable</li> <li><input type="checkbox"/> is listed, when appropriate, in a calibration log when actively utilized</li> </ul>	YES NO	

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Fabricator's Name: \_\_\_\_\_ Fabricator's number: \_\_\_\_\_ Date: \_\_\_\_\_

K	AUDITS/REVIEWS OF THE QUALITY PROGRAM	COMPLIANCE	COMMENTS
K-1	Verification was presented to demonstrate that management has reviewed the Quality Control System within the last twelve (12) months.	YES NO	
K-2	Management has taken steps to measure the effectiveness of the quality program.	YES NO	
K-3	The QA/QC manager has shown documentation that each Quality Control Manual was reviewed to assure it is complete and up to date within the last six (6) months.	YES NO	
K-4	The fabricator has established a record retention system and is retaining job records for a minimum of two (2) years after construction completion.	YES NO	
L	QUALITY CONTROL PERSONNEL/INSPECTORS	COMPLIANCE	COMMENTS
L-1	Quality control inspectors were available in the plant at the time of this inspection excluding QC manager (applicable when appropriate).	YES NO	
L-2	The quality control personnel have immediate access to the specifications, addendums to specifications, or to the engineer for answering key questions.	YES NO	
L-3	The quality control personnel have immediate access to the technical library and other pertinent information.	YES NO	
L-4	The quality control personnel inform line production supervisory personnel when nonconforming work is observed.	YES NO	
L-5	The quality control personnel are conversant with qualifications of special process requirements.	YES NO	
L-6	The quality control personnel have immediate access to approved procedures for special processes.	YES NO	
L-7	The quality control personnel are conversant with qualifications of special process personnel.	YES NO	
L-8	The quality control personnel verify equipment is checked for acceptable performance.	YES NO	
L-9	The quality control personnel verify that production equipment is calibrated.	YES NO	
L-10	The quality control personnel can verify documentation of equipment maintenance and repairs.	YES NO	
L-11	Non-conforming tools and equipment are red tagged to prevent their use in production.	YES NO	
L-12	The quality control personnel are equipped to properly perform assigned tasks.	YES NO	
L-13	The quality control personnel understand their responsibility to management.	YES NO	
L-14	The quality control personnel have sufficient authority to perform their assignments.	YES NO	
M	ADDITIONAL COMMENTS	COMPLIANCE	COMMENTS
It is evident by this inspection and the review of the Quality Control System and its operation that at this time:			
M-1	All employees are aware of the Quality Control System.	YES NO	
M-2	Employees are familiar with the Quality Control System as it may pertain to them.	YES NO	
M-3	Management has taken an active role in the Quality Control System.	YES NO	

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M-4	The following key functions are performed by personnel fully aware of and acquainted with the Quality Control System: <input type="checkbox"/> sales <input type="checkbox"/> purchasing <input type="checkbox"/> other _____ <input type="checkbox"/> engineering <input type="checkbox"/> production                      _____ <input type="checkbox"/> drafting <input type="checkbox"/> quality control	YES	NO	
M-5	The fabricator has completely separated production and QA/QC activities.	YES	NO	
M-6	The fabricator QA/QC program is functioning in each of the key areas without significant omissions, inconsistencies and/or non-compliance with the established program.	YES	NO	
M-7	The fabricator appears to have sufficient procedure/work instructions to assure all products are fabricated to conform to the contract documents and code requirements.	YES	NO	
M-8	The fabricator has an adequately documented Quality Assurance Program.	YES	NO	

SPECIAL INSPECTOR NAME: \_\_\_\_\_

(ENGINEER'S SEAL)

SPECIAL INSPECTOR SIGNATURE: \_\_\_\_\_

DATE: \_\_\_\_\_