

BUILDING CODE ENFORCEMENT AUDIT OF FABRICATION PRACTICES (STEEL)

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

 \circledast Symbol intended for office use only

Fabricator's Name:_____

А	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	
В	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, bolting, 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	
B-8	The fabricator has personnel with knowledge of mill roll practices. 🗇	YES	NO	
С	DRAFTING	COMPLIANCE		COMMENTS
C-1	Shop drawings are properly 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: receipt on file 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: receipt on file 	YES	NO	
D-4	The Quality Control 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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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	
E	WORK ORDER – JOB CONTROL	COMPLIA	NCE	COMMENTS
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: stamped received dated & initialed	YES	NO	
F	MATERIAL PROCUREMENT	COMPLIA	NCE	COMMENTS
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/documented 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	
G	RECEIVING MATERIAL	COMPLIANCE		COMMENTS
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: receiving materials receiving subassemblies acceptance/rejection of nonconforming materials and/or subassemblies 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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G-8	Receiving inspector confirms: quantity of materials grade of material size of material length of material heat numbers or material match heat numbers on mill certificates acceptance tolerances	YES NO	
н	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: handle materials in the yard handle materials in the plant store materials/subassemblies provide correct bracing/blocking for materials/subassemblies prevent material/subassembly deterioration provide correct storage for fabricated products handle fabricated products 	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: minor repairs major repairs documentation of re-inspection of repairs 	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	

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1	EQUIPMENT CONTROL & MAINTENANCE	COMPLIANCE	COMMENTS
J-1	 The fabricator can demonstrate that each piece of equipment in the plant: is acceptable or not acceptable for use is documented on the equipment is on a maintenance program is listed on a maintenance log has been calibrated within an acceptable established time frame where applicable is listed, when appropriate, in a calibration log when actively utilized 	YES NO	
к	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	
К-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	
К-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. tapeline chipping hammer calipers magnifying glass tag system amp tongs welding gage paint gauge	YES NO	
L-13	The quality control personnel understand their responsibility to management.	YES NO	

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L-14	The quality control personnel have sufficient authority to perform their assignments.	YES NO		
м	ADDITIONAL COMMENTS	COMPLIANCE	COMMENTS	
It is evid time:	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		
M-4	The following key functions are performed by personnel fully aware of and acquainted with the Quality Control System: Quality Control System: sales purchasing engineering production drafting 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		
Does the fabricator manufacture structural steel? No. STOP and proceed to sign the form. Yes. Complete Section N. Workmanship (Structural Steel Only) 				
Ν	N WORKMANSHIP (STRUCTURAL STEEL ONLY)			
N-1	Auditor: Observe a fabrication project either in progress or just completed and provide the following information: N-1 Project Name: Fabrication is: In Progress Fabrication was completed on: 			
N-2	Auditor: Inspect a sample portion of the fabricated items of the observed project and provide the following information: Material identification markings:			
SPECIAI	_ INSPECTOR NAME:			
SPECIAI	SPECIAL INSPECTOR SIGNATURE:			