Project System Audit Subcontractors on Site

Note:

Not all items of the checklist shall be checked. It depends on the status of the work and whether it is the first, second or third audit.

1. Project Definition

- **1.1** Has an acknowledgment of the PO been received by Company?
- **1.2** Have Company's latest issues of specifications and drawings been made available?
- **1.3** Have any SC queries been resolved?
- **1.4** Has the applicable scope of work / services for the subcontractor been defined?
- **1.5** Has the SC's safety plan been reviewed and approved?
- **1.6** Has the SC's Quality/Inspection plan been reviewed and approved?
- 1.7 Has SC's organization chart been accepted by Company and does this chart reflect reality?
- **1.8** Are international and/or local codes/norms/ standards applicable?

If so, where have they been listed and are copies with the subcontractor?

- 1.9 Are client/Company/subcontractor's construction practices/procedures applicable and to be used?
- **1.10** Have job related internal instructions been developed by Company and issued to the subcontractor?
- **1.11** If client's/Company's/subcontractor's standards/ details/forms, etc. must be used:
 - a. are these documents available with the subcontractor?
 - b. are they technically acceptable for this type of job?

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	• progress?		
	• planning?		
	nonconformances?		
2.	Job Control		
2.1	Has SC's progress curve been accepted by Company?		
2.2	What progress measurement system is used on the job?		
2.3	Have weight factors been assigned and what has been the basis?		
2.4	Has the total S/C scope been divided in activities?		
2.5	To what extent and how are manhour expenditures administered against activities?		
2.6	What is the latest physical progress reported?		
	State reporting date.		
2.7	What was at that time the relationship between spent and planned manhours?		
2.8	Has the manpower curve been accepted by Company?		
2.9	How does the final expected manhours requirement relate to the originally estimated manhours?		
2.10	Were any problems experienced in:		
	• obtaining the right number of people?		
	• mobilization?		
	• obtaining the right quality of people?		
	• performance of people?-		
	 changes in manpower due to external reasons? 		
	quality and safety performance in		
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	Checklist	Remarks
	general?	
2.11	Have any EWA's been approved? If yes, has the impact been reflected in S/C's progress measurement system/data base?	
2.12	What is the quality and frequency of communication/coordination with the Company Construction Management team?	
2.13	Is there a detailed planning agreed upon with Company?	
2.14	Have planned milestone been met in time?	
2.15	How are scope/quantity increases incorporated in the subcontract?	
3.	Document/Data Control	
3.1	Are checkprints and/or masterprints of documents available?	
3.2	Are previous issues of documents kept with the subcontractor?	
3.3	How are redundant issues marked?	
3.4	Is a list of received/prepared drawings maintained?	
3.5	Is a transmittal file maintained for documents received from Company?	
3.6	Is a transmittal file maintained for documents issued to Company?	
3.7	How is it ensured that available supplier prints (supply and erect order only) are accepted without comments by Company?	
3.8	Are latest issues of documents available at the work location?	
3.9	How is it ensured that void documents are removed from the work location?	
3.10	Are the subcontractor's computer programs used for this project, acceptable to Company?	
3.11	If so, are computer calculations	
	checked/approved?	
	• numbered?	Ţ

Action (X)

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3.12	To what extent are alternative calculations made?		
4.	Site EH&S		
4.1	Is S/C's EH&S plan available?		
4.2	Has Company's EH&S plan (including rules and regulations) been made available?		
	Has client's EH&S plan been made available?		
4.3	Who has been appointed as subcontractor's EH&S representative?		
	What are his qualifications?		
	Is this a full-time or part-time function?		
4.4	What is the frequency of EH&S meetings and which level of personnel shall attend?		
4.5	What is the frequency of toolbox meetings being held?		
4.6	Is an attendance list for toolbox meetings being maintained?		
4.7	Is there evidence of safety reports (first aid, incident/accident reports and statistics) being sent to Company?		
4.8	Who issues personal protective equipment, clothing, etc.?		
4.9	Who is watching consistent use and proper application of this equipment/clothing?		
4.10	Has a site emergency evacuation procedure been issued?		
	Have all S/C employees been informed about the details?		
	How are meeting points and siren signals made known to subcontractor personnel?		
4.11	Has all S/C labor attended a safety induction meeting?		
4.12	Have safety rules/regulations been issued to all individuals?		

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Inspection/Test Records 5. 5.1 Have Company/client hold/witness points been agreed? 5.2 Have authority/third party hold/witness points been agreed? 5.3 Have inspection/test records to be used been agreed upon? Have these been included in subcontractor's Quality Plan? 5.4 Are the forms filled out as the work progresses and not activity completion? 5.5 Are forms properly authorized by: subcontractor? Company? Third party? Installation/(Shop) 6. **Fabrication** 6.1 Are procedures available and accepted by Company for: transfer of color coding and heat numbers? pre / post heat treatment? hydrotesting? **NDT** Welding 7. 7.1 Have welder qualifications been checked? 7.2 Were any requalifications required? 7.3 Have the Weld Procedure Specification (WPS) and Weld Procedure Qualification (WPQ) been reviewed and agreed upon?

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Are base welding consumables properly

controlled?

7.4

	Checklist	Remarks	Action (X)
	• quivers (>70 °C)		
	baking (300 ℃ for 2 hours)		
	• storage (120/150 °C)		
	• re(issuing) (max. 3x)		
	 handling 		
7.5	Who reviews the X-ray film:		
	• subcontractor?		
	• Company?		
	 NDT subcontractor? 		
	• authority?		
	• client?		
7.6	Is Company authorized to over-rule authority?		
7.7	Are NDT reports signed and stamped?		
7.8	Are image quality indicators being used?		
7.9	What date/numbering system is being used?		
7.10	Are photos taken before or after stress relief?		
7.11	How are welds being identified?		
7.12	Are evaluation criteria (HP 5/3) referred to in the NDT report?		
7.13	How is the traceability of films versus welds organized?		
8.	NDT		
8.1	Have qualifications of assigned personnel been verified?		
8.2	How are test results recorded?		
8.3	Are reports properly signed and stamped?		
8.4	Is NDT being subcontracted?		
8.5	Has Company approved the NDT approach?		
8.6	Is tested equipment/material being stamped?		
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Checklist Remarks Action (X)

Miscellaneous 9. 9.1 Is a construction dossier agreed upon/maintained (in accordance with the SC requirements). 9.2 Are calibration records of measuring and test equipment maintained? 9.3 Are personnel qualification records maintained? 9.4 Are construction equipment inspection records maintained? 9.5 What has been agreed upon about the close out of the SC? Are records handed over to Company? Is a punch list procedure used? Is an acceptance note being signed? 9.6 Have the authority requirements been established,? Which authorities are involved? Which documents have to be submitted for approval and by whom? Is sufficient time allowed for presentation and approval time? 9.7 Is it expected that the subcontractor needs the services of consultants for special items? 9.8 How is it ensured that S/C receives all relevant internal Company instructions? 9.9 What action is being taken if an instruction is technically not sound or in conflict with other project requirements?

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