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FABRICATION AND CONSTRUCTION READINESS REVIEW CHECKLIST

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Client: DOE FCF 10/1				. Date	:	Document No.: FRRC-3020033-000 001					
Project Title: DOE Atlas Railcar							Project No: 00225.03.0050				
Component/Iter	m: Atlas railcar and buffer railcar				Marie 177 e nie de chadada 230 a						
Supplier:	Kasgro Rail										
Prepared By:	S. Klein										
Requirements		Complete			Assigned Lead		Comments	Requirement Complete Initial/Date			
1	Verify the reconciliation of the SAR to fabrication/construction documents has been completed in accordance with AFS-EN-PRC-018.	Yes	No _	N/A	S. Klein		The railcar design is not licensed by the NRC	5WK 10/18/17			
2	Supplier approved by QA as required ("A" suppliers on ASL, etc.) for scope of work.				B. Counterman		Kasgro is on AFS ASL	10 m/18/17			
3	Purchase Order w/attachments approved by appropriate personnel and issued to the supplier. Supplier acknowledgement received.	comp by	K47	POD 10	acKnowledged /31/17 M. Denton		Purchase Request CO9 to PO#15C3011916 completed; PO in process of release/transmittal; complete PO processing by AFS by 10/26.	MD 11/2/17			
4	Drawings and specifications transmitted to and acknowledged by the supplier as required by project management, procurement and applicable procedures.				M. Den	ton	No AFS drawings or specification created/transmitted.	MD 10/19/11			
5	Production/fabrication/construction schedule provided by supplier, reviewed and accepted by PM.	\boxtimes	П		M. Den	ton	AFS generated revised Phase 3 schedule (based on Kasgro input); revised schedule has been reviewed and approved as internal Baseline Change Request.	MAD IOLIBLII			
6	Purchase Orders for supporting suppliers (ilems and services provided by AFS) have been issued.	П		\boxtimes	S. Klein		None provided by AFS for this scope.	SWK 10/18/17			
7	Client contract requirements incorporated in project planning. Appropriate requirements passed on to suppliers.				M. Den	ton	Reference PO#15C3011916- 000, Attachment 4	MAD 10/18/17			
8	Customer and AFS Hold and Witness Points established and communicated to the supplier through the AFS Purchase Order (see guideline AFS-EN-GDE-004).	comp 	lete OT	per _ 01	Major milestones are established by PO; reference PO# 15C3011916-000, Attachment 9. Additional Hold and Witness points will be established during review of the supplier's travelers. Traveler hold/witness hold points to be inserted into the project schedule. Travelers to AFS by 10/25. AFS to determine scheduled activities by 10/20.		be upon				
9	Information containing all required documentation has been provided to Records Management, Quality Assurance and the supplier (purchase order, drawing, specification, procedures, etc.).	\boxtimes			M. Den	ilon	All documents have been released through AFS records management; see PO attachments for AFS records mgmt. stamp.	MD 10/18/11			
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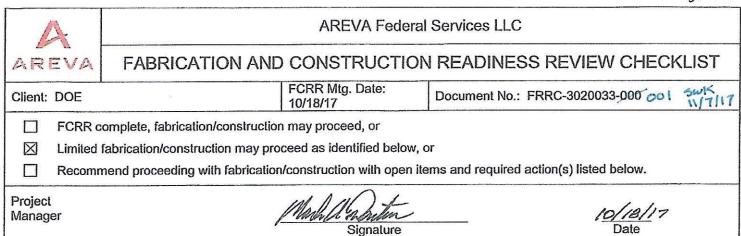
FABRICATION AND CONSTRUCTION READINESS REVIEW CHECKLIST

Client: DOE		FCRR Mtg. Date: 10/18/17			Document No.: PRRC-3020033-080 201 11/7/17			
Requirements		Complete Yes No N/A		Assigned Lead		Comments	Requirement Complete Initial/Date	
10	Lessons Learned from prior similar projects discussed and documented by the project team.				M. Denton		Kasgro presented M290 lessons at FCRR and AFS presented past fab lessons in Phase 3 kickoff; reference Kickoff presentation pages 18- 19.	MD 10/18/17
11	Prefabrication/preconstruction meeting/conference call with the supplier scheduled/completed to review applicable criteria prior to fabrication/construction.	\boxtimes	П		M. Denton		FCRR and Phase 3 Kickoff scheduled and occurred 10/18/17.	MAD 10/18/17
12	Fabrication/construction plan submitted by supplier and approved.	comp	lete S	De De	xx7 M. Denlon		Travelers include: Form 44B Rev TBD, Form 42 Rev TBD, Form 84 Rev 4-11-17, Form 85 Rev 4-11-17, Form 86 Rev TDB, Form 44C Rev 000. To be received by 10/25/17 and reviewed by AFS by 11/01/17.	MD 11/1/17
13	All at-risk or conditionally approved releases have been reconciled (Example: AFS has NRC CoC in hand, etc.).			\boxtimes	S. Klein		No at-risk or conditional release requirements have been placed on Kasgro by AFS or the AAR. Also, the Atlas railcar is not licensed by the NRC. The railcar will be conditionally approved for testing by the AAR EEC; however Kasgro fabrication is not specifically constrained by the AAR's release.	5WK 10/18/17
14	Flow down requirements have been provided and accepted by applicable sub-tier suppliers for start of work.	\boxtimes			M. Den	ton	Kasgro has received and accepted flow-down requirements (ref Item #7). However, Kasgro is responsible for implementing flow down requirements to sub-tier suppliers, AFS cannot legally advise. Kasgro has independently prepared flow-downs based on received T&Cs.	MD 10/18/17
15	Component or Item Classification Evaluation current and consistent as appropriate to the project.		П	\boxtimes	S. Klein		There are no AFS drawing for fabrication and no CCEs were generated. Fabrication will be per Kasgro design and drawings as received during Phase 2 and amended as necessary in Phase 3. (10 CFR Part 71)	5WK 10/18/17
16	Critical characteristics for inspection have been considered and identified.	COM DT	Nete P	207 D	S. Kleii	1	AFS to review inspection plans and to provide hold and witness points for traveler insertion. Inspection plans include: Form 36-A, Form 6-A, Assembly Checklist TEC-300, Assembly Checklist TEC-301, Form 9B & 9C, Form 9Z-A-1, Form 5-12-B. To be received by 10/25/17 and reviewed by AFS by 11/01/17.	SWK 11/7/17



FABRICATION AND CONSTRUCTION READINESS REVIEW CHECKLIST

Client: DOE		FCRR Mtg. Date: 10/18/17				Document No.: FRRC-3020033-000 001 3WK			
Requirements		Complete Yes No N/A		Assigned Lead		Comments	Requirement Complete Initial/Date		
17	Supplier documents (drawings, procedures, material certifications, etc.) and prerequisites (qualifications, prefabrication/preconstruction tests, etc.) are reviewed and approved by AFS using the Supplier Data Submittal process, and supplier notified.		No.	OF D	તું co૧ S. Klein		SDRL revision 2 sent with CO9 (Ref Item # 3 for PO change order). Documents to be reviewed using DTF process.	5WK 11/7/17	
18	Supplier process/fabrication/work control documents (shop drawings, procedures, travelers, etc.) include, as a minimum, the requirements of AFS project-specific drawings and specifications.			\boxtimes	S. Klein		No AFS drawing or specification requirements. However, DBRD requirements verified in Phase 2 design by AFS Engineering Oversight process.	SWK 10/13/17	
19	Project risk register updated.	\boxtimes			M. Denton		Risk register updated and evaluated monthly; last update as of 09/27/2017	Miz 10/18/17	
20	Define engineering of welds, welding and inspections to the fabricator/constructor. (Example: If welds are load bearing, pressure, vacuum, seal, etc. then define in a letter to the fabricator/constructor such that they will have some understanding of the importance.)			\boxtimes	S. Klein		AFS is not the design authority for the Atlas railcar. The railcar and buffer cars are designed by Kasgro to AAR Specification S-2043 which includes weld design and inspection requirements.	5WK 10/18/17	
21	Data Package contents, format, schedule, and review process defined to fabricator/constructor.	W 200	X TE	wled.	M. Denton		Included as SDRL #2 in transmittal of PO#15C3011916, CO9 (ref Item #3).	Mas ulaha	
22	ES&H requirements have been provided to the supplier	\boxtimes			M. Den		See Kasgro PO#15C3011916- 000, Page 4 for ES&H requirement.	MAS 10/18/17	
23	Added: Kasgro NCR program reviewed, AFS to provide oversight of NCRs; Kasgro to provide copies of NCRs for records (use as-is or repair)	(O9)。 区	Ø	046	M. Denton		Included in SDRL #2 as included in transmittal of PO#15C3011916, CO9 (ref Item #3).	MD 11/7/17	
24	Added: Kasgro Government Properly Control Program (and procedure) reviewed; Definition of government properly added to procedure.	609 X	Ø.	D	M. Den		Revised to better define government property; see Kasgro PO#15C3011916-009, Atlachment 41 (ref. Item #3).	MD UITA	
25									
26									
27		П							
Responsible Engineer:	S. Klein	Signature					. 10/1 Da	18/2017 ate	
QA Engineer B. COUNTERMON			Benur Court				/o//8//7 Date		





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FCRR Mtg. Date	: 10/18/17	Document No.: F	RRC-3020033-900 001	5 W/41201					
N LIMITATIONS/ACTIO	ONS								
n material procurement	and submittal	of required docume	ents for SDRL.						
Open Item(s) Required Action AFS PONISC3011916 C09 Submit C09 to Kasgro. Receive Supplier aeknowledgment									
724		Submit 609 to Kasgro. Receive Supplier acknowledgment							
. ಆಕ		Review supplier travelers							
tron plans		Review supplies inspection plans							
	Explor	Explanation for starting fabrication: Need to start							
	Open	Open items do not affect material procurement.							
USE ATTACHMENT(S) IF MORE SPACE IS REQUIRED									
Sr. Manager, — Operations	IEAVNE	R Wendell	Digitally signed by HEAVNER Wendell DN: o=AREVA GROUP, 2.5.4.45=1408A9210 cn=HEAVNER Wendell Date: 2017.10.23 16:04:50 -04'00'	938773620977A5,					
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Responsible Engineer	5. Klein		11/7/20	47_					
	Się	gnature	Date						
QA Engineer 3.0	CONTRACTOR SECTIONS AND EXPENSES	Court	11/1/17						
44. 75.		nature	Date						
Project Manager	1 Mans	nature		7					
	FCRR Mtg. Date N LIMITATIONS/ACTION In material procurement IN(s) IN 124 ILLES Fron plans USE ATTACHMENT(S Sr. Manager, Operations Responsible Engineer QA Engineer AMERIC DENTON	FCRR Mtg. Date: 10/18/17 N LIMITATIONS/ACTIONS In material procurement and submittal In(s) Submit 24 Lers Review Fron plans Review Open USE ATTACHMENT(S) IF MORE S Sr. Manager, Operations Frequency Open Responsible Engineer Sig QA Engineer Countermal/o Sig MARKA DENTON Project Manager Project Manager Project Manager Sig	FCRR Mtg. Date: 10/18/17 Document No.: F N LIMITATIONS/ACTIONS In material procurement and submittal of required documents In material procurement and submittal of required documents Recommend of the submittal of required documents Recommend	N LIMITATIONS/ACTIONS In material procurement and submittal of required documents for SDRL. In(s) Required Action Submit 209 to Kaspro. Receive Supplier ack Lets Review supplier travelers From plans Explanation for starting fabrication: Ne procurement activities to meet procupentions Open items do not affect material procurement of procurement activities to meet procurement activities activitie					