Here is the generated checklist:

Requirements Capture

Safety Requirements

Fu:

- Are functional requirements allocated to AI/ML constituent?
 - Yes / No

Operational Requirements

- Is AI/ML constituent ODD monitoring requirement captured?
 - O Yes / No
- Is performance monitoring requirement captured for AI/ML constituent?
 - O Yes / No
- Is detection of OoD input data requirement captured?
 - O Yes / No
- Are data-recording requirements captured for AI/ML constituent?
 - O Yes / No

Non-Functional Requirements

- Is scalability requirement allocated to AI/ML constituent?
 - O Yes / No

 Are other non-functional requirements allocated to AI/ML constituent?
○ Yes / No
Interface Requirements
Are interface requirements allocated to AI/ML constituent?
○ Yes / No
AI/ML Constituent ODD
 Has the AI/ML constituent ODD been precisely characterized?
○ Yes / No
 Have parameters pertaining to AI/ML constituent ODD been defined?
○ Yes / No
• Are these parameters traced to corresponding OD parameters when applicable?
○ Yes / No
Inference Model Verification
Inference Model Performance Evaluation
Has the inference model performance been evaluated using test data set?
○ Yes / No
• Is the final performance with test data set documented?
○ Yes / No
 Are metrics defined under SA-01 linked to this evaluation?
○ Yes / No
 Is any divergence in metrics compared to LM-09 explained?
○ Yes / No
Inference Model Stability Verification
Has the inference model stability been verified through verification cases?
○ Yes / No
 Are anticipated perturbations in operational phase due to data input fluctuations addressed?
○ Yes / No
• Are nominal, singular point, edge, and corner cases covered in stability verification

○ Yes / No

Inference Model Robustness Verification

•	Has the inference model robustness been verified through test cases in adverse conditions?
	○ Yes / No
•	Are edge or corner cases within AI/ML constituent ODD addressed?
	○ Yes / No
•	Are OoD test cases used to verify robustness?
	○ Yes / No

Inference Model Integration

• Has requirements-based verification of inference model behavior when integrated into AI/ML constituent been performed?

○ Yes / No