

**DRAFT Action Plan Table:
Advanced Manufacturing Technologies, Deliverables and Schedule**

Problems/Gaps that Need to be Addressed:

To prepare the NRC staff for regulatory submittals containing parts and components manufactured using Advanced Manufacturing Technologies (AMTs). To identify and rectify regulatory challenges and gaps associated with the review of AMT submittals. To provide guidance and tools for review consistency, communication and knowledge management for the efforts associated with AMT approvals. To provide transparency to stakeholders on the process of AMT approval.

Task¹	Description	Lead	Actions/Deliverables²	Schedule³ Completion	Status
1	Near Term Need – Initial AMT	NRR	1.1 Public meeting on the action plan	1 months	
		NRR/RES	1.2 Short term interactions - RIC, Materials meetings, prior interactions (RAR)	2 months	
		NRR	1.3 Memo to Division Directors on candidate AMT method and timeframe for use	3 months	
		NRR/RES	1.4 Information gathering for initial AMT: Prior knowledge, Site visits, contractor support, public meetings, training	4 months	
		NRR/RES	1.5 Develop document on the essential safety differences between the proposed initial AMT and traditional manufacturing and the aspects of the technology not addressed by codes, standards and regulations	4 months	
		NRR	1.6 Develop presentations/documents on initial AMT pertaining to 50.59 (or 72.48) implementation	4 months	
2	Continuing Need	RES	2.1 External interaction plan development	2 months	

¹ Some activities are directly dependent on information from external organizations. Staff may have to make assumptions to provide deliverables.

² The bold items represent the major deliverables identified in the action plan

³ The current schedule assumes that an AMT component will be installed within 12 months. The ongoing activities listed are assumed to be occurring over that time. This action plan will be revisited and revised periodically.

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Task¹	Description	Lead	Actions/Deliverables²	Schedule³ Completion	Status
		NRR/RES	2.2 Continued external communication with vendors, licensees and EPRI for future AMTs	Ongoing	
		NRR	2.3 Update Task 1.3 Memo as other AMTs are proposed	As needed	
		NRR/RES	2.4 Continued Information gathering for future AMTs: Site visits, contractor support, public meetings, training	Ongoing	
		NRR/RES	2.5 Continued interaction in Codes and Standards	Ongoing	
		NRR	2.6 Continued internal interactions between the AMT agency team	Ongoing	
		NRR/RES	2.7 Develop a document that describes the generic technical information needed in AMT submittals.	6 months	
		NRR	2.8 Public meeting	7 months	
3	Determine if guidance update is necessary	NRR	3.1 Determine if any changes are needed	Ongoing	
		NRR	3.2 Develop a memo to Division Directors recommending a path forward on guidance development or modification	8 months	
4	Knowledge management	RES	4.1 Develop plan for Knowledge Management	6 months	
5	Update action plan	NRR	5.1 Evaluate the need to update plan and revise accordingly	6 months and ongoing	