Mixed Waste Generation Checklist

Can the work operation generate a radioactive waste (i.e., activation or radioactive contamination of a material/substance)?		
	Yes	**No**
Is the work operation inside an accelerator housing and will the material/substance be located inside the housing during beam operation?	☐	☐
Is the work operation inside a Contamination Area (including Airborne Radioactivity Areas)?	☐	☐
Does the work operation involve the disassembly or mechanical alteration (e.g, cutting, grinding, machining, drilling, sanding, welding, etc.) of a radioactive accelerator component?	☐	☐
Does the work operation expose the material/substance to radioactive contamination?	☐	☐
Does the work operation involve the radioactive portion of the Low Conductivity Water (LCW) System? (Contact the RPFO Group for a current list of LCW systems which are potentially radioactive.)	☐	☐
(Note: This is not an all-inclusive list. If unsure if a work operation will generate a radioactive waste, contact RPFO Group). If the work operation does not have the potential for generating a radioactive waste, then STOP. A mixed waste will not be generated.		

Can the work operation generate a hazardous waste?		
	Yes	**No**
Does the work operation require the use of a hazardous material (e.g., cleaner, solvent, acid, base, etc.) and will it generate a hazardous waste?	☐	☐
Does the work operation remove or process items (e.g. equipment, components, etc.) that contain hazardous materials and will it generate a hazardous waste?	☐	☐
Does the work operation install items (e.g. equipment, components, etc.) that contain hazardous materials and will it subsequently generate a hazardous waste when the item is discarded in the future?	☐	☐
If unsure if a work operation will generate a hazardous waste, have you completed a Hazardous Waste Determination Form (Appendix 3B of the SLAC Radioactive Waste Manual) and submitted it to the RP RWM Group at MS 84 for evaluation?	☐	☐
If the work operation does not have the potential for generating a hazardous waste, then STOP. A mixed waste will not be generated.		

Has the generation of a mixed waste been authorized?	
	(Check)
Have you considered the use of non-hazardous substitutes or process modifications that would accomplish the work operations but prevent the generation of mixed waste?	☐
If use of non-hazardous substitutes or process modifications cannot be used to accomplish the work operations and the generation of a mixed waste is unavoidable, have you completed a Mixed Waste Generation Request Form (see Appendix 3C of the SLAC Radioactive Waste Manual)?	☐
If the mixed waste does not have a path to disposal, have your Associate Director, the ES&H Associate Director and the DOE/SSO authorized the generation of the mixed waste?	☐

Mixed Waste Generation Checklist

Generation of Mixed Waste:	
	(Check)
Has the potential for generating mixed waste been communicated to all personnel involved with the work operations?	☐
Have all personnel involved with the work operations been informed of the associated hazards and the need to minimize the amount of mixed waste generated?	☐
Has the mixed wasted been segregated from other radioactive waste and from non-radioactive waste in order to prevent cross-contamination?	☐
Has the mixed waste been segregated according to its hazardous constituent/property (e.g., lead, mercury, toxicity, reactivity, corrosivity, ignitability, etc.)?	☐
Has the mixed waste been segregated according to its physical form (i.e., segregate liquids and solids; liquids and solids are segregated since the treatment/disposal path for each is different.)?	☐
Is the mixed waste compatible with its packaging and has it been segregated from any incompatible wastes/materials in the area? (Note: Many hazardous constituents are incompatible with each other and possibly their packaging. When segregating mixed waste, ensure the waste is compatible with its packaging and any other waste with which it may come in contact. For more information regarding incompatible wastes, obtain a chemical compatibility chart from SLAC Stores, see Title 22 CCR, Chapter 15, Appendix V, or contact the Waste Management Group.)	☐

Management of Mixed Waste:	
	(Check)
Has RPFO Group been notified to survey the mixed waste?	☐
If the waste is non-radioactive, has RPFO Group "green tagged" the waste, have you subsequently transferred the waste to the Waste Management Department, and did you inform them that the waste was generated in a radiological area?	☐
If the waste is radioactive, does the waste meet the Waste Acceptance Criteria of Chapter 5 of the SLAC Radioactive Waste Manual?	☐
If the waste is radioactive and does not meet the Waste Acceptance Criteria, have you completed a WAC Exception Request Form (Appendix 5A of the SLAC Radioactive Waste Manual)?	☐
If the waste is radioactive, have you packaged the waste according to the Waste Acceptance Criteria or the WAC Exception Request Form?	☐
If the waste is radioactive, have you marked/labeled the packaged waste according to the Waste Acceptance Criteria or the WAC Exception Request Form?	☐
If the waste is determined to be radioactive, have you completed a Radioactive Material Declaration Form (Appendix 3A of the SLAC Radioactive Waste Manual)?	☐
Have you notified RPFO Group to transfer the waste to the RP Mixed Waste Accumulation Area?	☐