

A Retrospective Review of AMC Issues: Our Understanding and Issues Incurred

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Illustration Page

Table 1. Sample illustration of the proposed AMC classification addressing the risk level of a particular AMC or a group of AMCs on various endpoints.

Chemical Family	Impact				
	Process	Equipment	Device		
			FEOL	MOL	BEOL
Roadmap Term.	POU	POE	POP	POP	POP
Inorganic Acids	Yes	Yes	No	Yes	Yes
Inorganic Bases	Yes	No	Yes	Yes	Yes
Carboxylic Acids	Yes	Yes	Not Known	Not Known	Yes
Organic bases	Yes	Yes	Yes	Yes	Yes
Esters	Not Known	Yes	Not Known	Not Known	Not Known
Aldehyde/Ketones	Not Known	Yes	Not Known	Not Known	Not Known
Phenolic/Alcohol	Yes	Not Known	Not Known	Not Known	Not Known
Aromatics	Not Known	Yes	No	No	No
Plastizers	Yes	No	Yes	No	No
Aliphatics	No	Yes	No	No	No
Heterocycles	Not Known	Yes	Not Known	Not Known	Not Known
Siloxanes	Not Known	Yes	Not Known	Not Known	Not Known
Fluorinated	Not Known	Yes	No	No	No
Sulfurous	Yes	Not Known	Not Known	Not Known	Not Known
Halocarbons	Not Known	Not Known	Not Known	Not Known	Not Known

Figure 1. IRDS defect mechanism: A protocol to verify the baseline impact of an AMC and the effectiveness of the mitigation strategy.

