

ENGINEERING FOOD-SAFETY RISK & ASSET CRITICALITY ASSESSMENT

AFME-BRC-ENG-F03

Risk-based method for identifying engineering assets whose failure or deterioration could affect product safety, legality or hygienic control.

Site / Company	[Enter site/company]	Date	[dd/mm/yyyy]
Department	Engineering	Completed by	[Name / role]
Area / Asset	[Enter]	Reference / WO	[Enter]

1. Asset details

Asset ID	
Asset / system	
Location / zone	
Function	
Current maintenance strategy	
Manufacturer / model	

2. Food-safety consequence assessment

Criterion	Score 0-3	Evidence / rationale
Direct/indirect product contamination from failure, wear or breakage.		
Foreign-body generation: metal, plastic, rubber, glass, coatings, fasteners or fragments.		
Microbiological risk from water retention, drainage, inaccessible surfaces or cleaning failure.		
Chemical contamination: lubricant, hydraulic oil, refrigerant, treatment chemical or utility.		
Allergen cross-contact from failure or engineering intervention.		
Impact on CCP/OPRP, detector, alarm, interlock or product-release decision.		
Loss of temperature, time, pressure, flow, filtration, dosing or other safety parameter.		
Structural, pest-ingress, condensation, water-ingress or drainage consequence.		

3. Scoring and classification

Score	Meaning
0	No credible food-safety consequence.
1	Low: controlled consequence; readily detected before product impact.
2	Medium: plausible product/environment impact requiring defined controls.
3	High: credible direct food-safety/legal impact or loss of critical control.

Total	Class	Minimum expectation
0-4	C - Routine	Standard planned maintenance and defect control.
5-10	B - Significant	Defined PM/inspection, overdue review and suitable spares/contingency.
11-24	A - Food-safety critical	Priority PM, defined escalation, verification and change control.

4. Maintenance control decision

Control	Decision / detail
Assigned criticality	A / B / C
PM / inspection frequency	
Condition checks / limits	
Critical spare requirement	
Calibration / challenge requirement	
Failure contingency	

Control	Decision / detail
Overdue work approval level	
Review date	

Authorisation / sign-off

Role	Name	Signature / approval	Date
Engineering Manager			
Technical / Food Safety			