CRITICALITY ASSESSMENT STANDARD FORM
Sheet 1

CRANSTON
The Project Engineers Toolkit

CLIENT: CHIEFTAN	CONTRACT: 001	DOC NO: CHI-CRS-001	REV: B1

Part 1	***CRITICALITY RATING FORM***	***DATE : 17/08/2015***
Equipment Item or Package Description: SEAWATER FILTER PACKAGE		
Subcontractor : ***Seawater Filters Ltd***	***Requisition Number:*** ***TA001-100-R002-001***	***Package Engineer:*** ***A Person***
Part 2	***CRITICALITY EVALUATION SCORING AND RATING:*** *(Scoring and rating values, definitions and recommended QA requirements)*	

Note: ***Lowest Number (1, 2, 3, 4) and lowest alphabetical index (A, B, C or D), from sheet 2, constitutes the criticality rating of either a system or a procurement Package.***

	A	B	C	D	Circle the Base criticality based on the chart :
1	I	I	II	IV	Category I Component
2	I	II	III	IV	Category II Component
3	II	III	IV	IV	Category III Component
4	IV	IV	IV	IV	Category IV Component

Confirm inspection (Tick Right hand Column where appropriate)		
Category I Criticality	Provide full time resident inspector	
Category II Criticality	Provide regular inspector visits	✓
Category III Criticality	Provide random inspection visits and witness tests	
Category IV Criticality	No Inspection required	

Part 3	***Comments (If applicable) and approval***

Override statement with full justification *(if required): N/A*

Criticality rating amended to: *I II III IV* *(Circle where appropriate)*
Reason for Amendment is :

Additional Comments from the review :

ACTION	JOB TITLE	SIGNATURE	DATE
PREPARED BY	REQUISITIONING ENGINEER	MW	17/08/15
AGREED BY	OTHER DISCIPLINE (WHERE APPLICABLE)	-	-
APPROVED BY	LEAD ENGINEER	KN	17/08/15
VERIFIED BY	QUALITY ENGINEER	GK	17/08/15

NOTE:- This Criticality Assessment Form is to be completed to define the level of Quality Control required for purchase requisitions as defined in procedure number XXXX-XXX

CRITICALITY ASSESSMENT STANDARD FORM
Sheet 2

CLIENT: TALISMAN SINOPEC	CONTRACT: 0426	DOC NO: 0426-131-R010-CRS-001	REV: B1

Note :- Circle or highlight the selected value in each table

	Safety / Environmental Would failure during commissioning, start-up, and/or operation jeopardize health and safety of personnel or the environment?	
	Significant risk to personnel or environment due to toxic or high inventory of hazardous fluid / process / temperature/ pressure / corrosiveness	**1**
	Medium risk to personnel or environment due to hazardous fluid / process / temperature/pressure / corrosiveness	**2**
	Moderate risk to personnel or environment due to medium hazard process or fluid.	**3**
	Low risk to personnel or environment due to inherently low risk of fluids or process	**4**

	Commercial / Financial Impact What would be the likely financial consequences of equipment failure, and the associated consequential damage, during commissioning, start-up, and/or operation?	
	Replacement or repair cost above 1M GBP	**1**
	Replacement or repair cost between 100k GBP to 1M GBP	**2**
	Replacement or repair cost between 10k GBP and 100k GBP	**3**
	Replacement cost below 10k GBP	**4**

	Facilities Consequences : What impact would failure of the equipment function have on operation?	
	Results in long term production shutdown due to mobilization time of repair equipment or fabrication time for replacement parts	**1**
	Cause operational upset and/or production downtime of more than 24 hours.	**2**
	Moderate impact so as to inhibit full production and require emergency maintenance and control operations.	**3**
	Inconvenient to plant operation and result in operational difficulties without loss of process operations.	**4**

	Design and Engineering Maturity Are there critical or new design features which warrant special engineering or inspection follow-up?	
	New innovative design with unproven reliability or non-code based requirements.	**A**
	Extrapolation of proven design with limited reliability data or previous experience.	**B**
	Modification of proven design with known reliability and past experience	**C**
	Frequently used and well-proven design with easily obtained spare parts	**D**

	Manufacturing Complexity Is the manufacturing complexity of the equipment such that a high level of in process verification is required?	
	Large number of complex processes, exotic, highly specified, or modified materials of construction, which require extensive testing or are not easily secured	**A**
	At least one complex process, special materials, etc., with limited previous experience.	**B**
	Large number of routine processes with common materials of construction	**C**
	Few routine processes with common materials of construction.	**D**