

When & Why Is a Plant Modification Proposal (PMP) Raised?

Prior to <u>ANY</u> Modification (Engineering or Operational) Unless it is a Like-for-Like Replacement

OBJECTIVES OF PMP – Ensures that Proposals Are:

- 1. Categorised for Impact on Safety
- 2. Explicit about the Potential Hazards & Risks, along with Required Controls
- 3. Documented, Assessed and Authorized at the Appropriate Level
- 4. Implemented Correctly







PMP Safety Categorisation

- From Safety Perspective, Required to Answer a Series of Questions as "Yes" or "No" {Pertaining to All Aspects of Safety}
- Could Installation or Operation of the Modification Involve: {Some of Those Relevant to Criticality Safety }
 - Receipt of Uranium in Excess of 5.0 ^w/_o ²³⁵U Enrichment ?
 - Need for New / Changed Criticality Clearance Certificate ?
 - Changes to Items with Safety Functions?
 - RECENT ADDITION An Increase in the Rate of Accumulation of Uranium within Processes and Systems, including Ventilation Systems / Scrubbers ?
- If All Are Answered "No", results in a Category D PMP
- If Some are Answered "Yes", (Typically) Results in <u>A MINIMUM OF</u> a Category C PMP (or Potentially Higher Category A / B, Depending upon Question and Degree of Significance of Risk)



Implications of PMP Safety Categorisation



Document Length & Stages



Cat C or Above – Further Internal Review





Cat C or Above – Peer Review {Includes Plant Manager, Engineer, Criticality Specialist}



Cat B or Above – Enhanced Regulatory Review



Some Key Sections of PMP ...



Engineering Substantiation

{How <u>Know</u> that Engineering Will Perform Safety Function ?}



Commissioning Requirements



Training Requirements



Review Period



All Documents / Other Actions Captured ...

		When Required	Details	Person Responsible	Initials / Date
5	Criticality documents (CCC, UMCAF etc) (1)				
6a	Category 1 or 2 drawings -marked up drawing to Design office for modification				
6b	Category 1 or 2 drawings -marked up drawing to ECC for emergency use				
6с	Amended & approved Category 1 or 2 drawing to ECC for emergency use				
7	Other drawings				
8	Civil assets register			Orale	A vith out o of to Otout
9	Design assessment report			A .	ly Authorised to Start
10	Engineering justification report (SSI 917) (7)				Once Plant Manager
11	Engineering schedule			•	ominee) has Signed To Signify That All
12	PUWER Risk Assessment				Requirements Have
13	Cause & effect diagram				Been Completed
14	Software documents				Seen Completed
15	Trip / alarm / control schedule				
16	ICL (Installation Check List)				
17	Emergency instructions				
18	Operating instructions				

Columns: (1) – Before Installation, (2) Before Live Commissioning / Testing, (3) Before Start of Operation, (4) After Start of Operation



