5W1H & WHY WHY ANALYSIS

5W1H Analysis

Department: Water Systems

Section: RO Plant –Process

Location : RO Stage 1

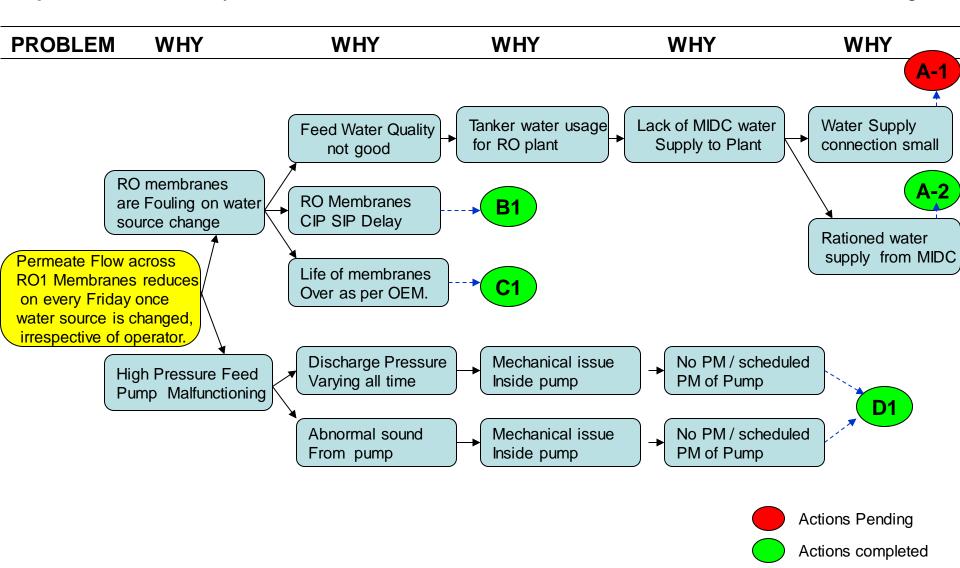
Problem: Permeate Flow Across RO1 Membranes is Reducing Drastically

WHAT	RO stage 1 Permeate Output low
WHEN	On every Friday once water source is changed
WHERE	RO stage 1 permeate Output
WHO	Independent of Person
WHICH	Lack of RO water for Distillation units-WFI shortage
HOW	Every Week – 4 /5 times in a Month

Redefined Problem Statement: Permeate Flow across RO1 Membranes reduces on every Friday once water source is changed, irrespective of operator.

5-WHY Analysis

Department: Water Systems Section: RO Plant – Process Location: RO Stage 1

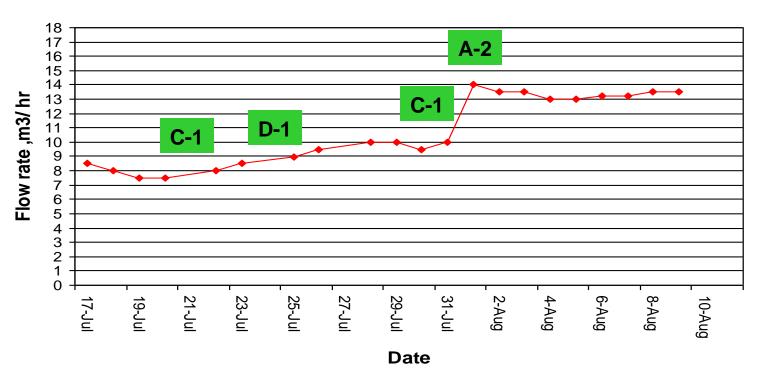


5-WHY Analysis

Sr. No	Actions Description	Date	FPR	Status
1	Plan to Install 6" size water supply connection from MIDC.	15 Oct 07	PBB AKR	A-1
2	Meet MIDC executive Engineer & check fact for water rationing in industrial area.	30 July 07	PBP	A-2
3	Execute CIP SIP along with Aquatech & NALCO teams.	22 July 07	GM	C-1 B-1
4	Check the Life of RO membrane with Hydranautics USA.	20 July 07	DLH	D-1
5	Plan PM & Servicing of the High pressure feed pump of RO stage 1.	24 July 07	PBP	

5-WHY Analysis-RESULT

Permeate Flow across RO stage-1 membranes increased to <u>13.5 m3/hr</u> from <u>8.0m3/hr</u>.(68% increase in Permeate Flow)



Permeate Flow Across RO-1 Stage