

www.genesysro.com

Next

Plant assessment protocol

Plant inspection form (RO/NF)

This document is designed to gather the appropriate information to allow Genesys International to design a suitable antiscalant treatment for the inhibition of of foulants and deposits and a cleaning protocol. Section 1:		Date:	d by:
Operation and d	lesign data		
Contractors:		Plant De Water type: Brackish Sur	face Tap Sea Waste
Construction Year:		Plant reference:	
Stages:		Address:	
Elements per pressure vessel:]	
Membranes: Make: Model:		Telephone:	
Pressure vessels per stage:		Contact:	
Recirculation: No Yes Operational Data	Flux: Units	Design values	Operation values
Feed Pressure:			
Reject Pressure:			
Feed Flowrate:			
Product Flowrate:			
Recovery:			
Product Quality:	μS/cm		
Average Temperature:	[Winter	Summer
Comments:			



www.genesysro.com

Section 2: Pretreatment

Feed System (storage tanks):						
Volume:	Covered: Yes	No Material:				
Sand filters:						
N°:	Configuration: Seri	al Parallel	Ø:			
Load type/ size:	Speed:	Other data:				
Microfilters:						
Type: Wound	Expanded (spun) Plea	ted Configuration:	Serial Parallel			
Cartridges/Housing units:	/ Replacen	nent: ΔP	Design/Current:			
Filter characteristics: Length: Manufacturer/Model: Micron:						
Other:						
Setting tank Flotat	on UF/MF					
Characteristics:						
Reagents Dosed	Product - Dose	mg/l	Dosage point			
Coagulant Flocculant pH Adjustment Chlorine Reducer (eg. SBS) Antiscalant						
On-line monitoring systems:						
Comments:			Next			



www.genesysro.com

Section 3: Post treatment

	Product - Dose mg/l	Dosage point
pH Adjustment: Chlorine:		
Corrosion Control:		
Remineralization:		
Other:		
Section 4: Feed water qual (Please indicate the units of meas	_	
(
SDI15:	Salinity (TDS):	
Turbidity:	Total suspended	d solids:
Calcium (Ca ²⁺):	Sulphates (SO ₄ ²	·-):
Magnesium (Mg²+):	Chlorides (Cl ⁻):	
Sodium (Na+):	Fluorides (F ⁻):	
Potassium (K+):	Bicarbonates (H	ICO ³⁻):
Barium (Ba²+):	Carbonates (CC	0 ₃ ²-):
Strontium (Sr ²⁺):	Nitrates (NO³-):	
Iron (total/Fe²+):	Silica (SiO ₂):	
Aluminium (Al³+)	Phosphates (PO	3-)
Manganese (Mn)	pH:	raw: feed:
Analysis frequency:	Design values re	ecovery: Yes No

Next



Membrane cleaning

Section 5:

Comments:

www.genesysro.com

9			
CIP System:		No	Yes
Can different stages be independently cleaned?:		No 🔳	Yes
Can cleaning solution be heated?		No	Yes
Filtration system installed in cleaning circuit?		No 🔳	Yes
Flux/pressure recirculation pump:	Cleaning tank volume:		
Cleaning Frequency:	Design values recovery	No	Yes
Cleaning Protocol: (Products & doses – pH – time - temperature – flow)			
Cleaning effectiveness:			

Section 6: Plant Diagram

Please attach a separate file of the diagram to the email generated by the submit button below before sending.

Instructions & Comments:

All units (filters, deposits, RO/NF modules) and equipments (pipes, valves and pumps) identified during inspection must be included in this diagram.

Flow and pressure values between different stages, if identified, should be indicated. Also reagents dosing points are important. When both coagulant and flocculant are dosed, distance between dosing points must be reported.

On-line monitoring system position (conductivity meters, redox control etc.) must be also indicated, if present.