



### 5-1. Introduction

Successful long term performance of the RO system depends on proper operation and maintenance of the system.

This includes well planned pretreatment and initial plant start-up. Membrane fouling and scaling, which can reduce permeate flow rate and salt rejection, are caused primarily by a poor pretreatment and also an improper operation. Mechanical and chemical damages of the RO system including the membranes may also arise from improper operations. Record keeping and data normalization is required to know the actual plant performance and to locate the source of any problem. Data normalization with reference to the initial start-up system performance is useful to show any performance changes during the following operations.

Complete records are required in case of a system performance warranty claim including elements.