

II.4-RES-SNGL-A-SETQ SINGLE RESERVOIR REGULATION OPERATION SCHEME PRESCRIBED DISCHARGE

Description

Scheme SETQ sets the period ending discharge as a constant value or a value in a time series. The discharge can be either an instantaneous or a mean value.

Except for the possibility of missing time series value this Scheme handles computations identically for setting period ending non-prescribed type of discharge, storage contents and pool elevation.

If the prescribed discharge is a mean value the period ending instantaneous discharge is set equal to the mean. The continuity equation is used to compute the storage contents at the end of the period. The elevation is picked off the elevation versus storage curve at the computed storage contents.

If the prescribed discharge is an instantaneous value the period mean discharge is computed by averaging the beginning and ending discharge. The storage contents and elevation are determined the same way as for mean prescribed discharges.

If the prescribed discharge is contained within a time series an option must be specified for action to be taken when missing values are encountered. This can either be to pass the inflow or to repeat a specified number of past discharges.

Parameters

- (OPTION) - Option to indicate action to be taken for missing values (if prescribed values are within a time series)
- (QVALUE) - Constant discharge (needed only if prescribed value is a constant)
- (INST or MEAN) - Indicator for discharge type if constant value used

Time-Series

- (SQTS) - Prescribed discharge time series (only needed if values are carried within a time series)

Carryover

- (OLDQ) - Previous releases for the specified number of periods if missing value option is used (only needed if time series is used an option is other than passing inflow)