## V.3.3-RES-SNGL-SPEC-SETDQ SINGLE RESERVOIR REGULATION OPERATION SCHEME DAILY RATE OF CHANGE OF RESERVOIR RELEASE

## Purpose

Scheme SETDQ allows the user to ramp up reservoir release or to ramp down reservoir release or to put a limit on the maximum rate of change of reservoir release through reservoir command language.

## Input Summary

Keyword	Definition and Format		
SETDQ	Input opening keyword for scheme		
<u>P</u> ARMS	Parameter opening keyword for scheme		
QVALUE	<pre>Prescribed daily rate of change of discharge: o if the daily rate of change of discharge is specified numerically then the format is:</pre>		
[TBLTYPE]	<ul> <li>Data type of independent variable of table:</li> <li>needed only if 'QVALUE TABL' entered</li> <li>TBLTYPE [INST or MEAN or POOL]</li> <li>INST indicates independent variable is instantaneous discharge</li> <li>MEAN indicates independent variable is mean discharge</li> <li>POOL indicates independent variable is pool elevation</li> <li>defaults to INST</li> </ul>		

	Keyword Definition and Format					
<pre>[TABLE] INST/MEAN/POOL (inde INST/MEAN (dependen) - needed only if - 'j' values of I 'j' values of d INST/MEAN disch ramping up; neg down; maximum 5 - independent var be in ascending</pre>		Independent va: lent variable) if 'QVALUE TAE f INST/MEAN/PC f daily rate c scharge; posit negative value m 50 pairs variables INST ing order	<pre>lependent variable) versus it variable) table. 'QVALUE TABL' entered INST/MEAN/POOL followed by daily rate of change of harge; positive values for gative values for ramping 50 pairs riables INST/MEAN/POOL must g order</pre>			
ENDPARMS Parameter ending keyword f			keyword for s	cheme		
	ENDSETDQ	Input ending keyv	vord for schem	e		
<u>In</u>	<pre>Input Examples 1. Constant daily rate of change of instantaneous discharge (500 CFS/DAY or 500 CMS/DAY) to ramp down reservoir release:    SETDQ    PARMS    QVALUE -500.0 INST    ENDP    ENDSETDQ</pre>					
2.	Daily rate of change daily rate of change to ramp up reservoir SETDQ	of mean discharg of mean discharg release:	e from pool el e (CFS/DAY or	evation versus CMS/DAY) table		
	PARMS QVALUE TABL MEAN TBLTYPE POOL TABLE 500.0 50.0 ENDPARM ENDSETDQ	500.1 520.0 50.0 200.0	530.0 300.0	540.0 400.0		