Purpose

Scheme FLASHBDS is used to specify flash boards.

Input Summary

Keyword	Definition and Format
FLASHBDS	Input opening keyword for scheme
PARMS	Parameter opening keyword for scheme
NBOARDS	Number of boards (2 values): 1) number of large boards - required - integer 2) [number of small boards] - optional - integer
GENL-L	Large board specifications (5 values): 1) crest elevation 2) hinge elevation 3) top elevation 4) flip elevation - real values - ascending order - within ELVSSTOR curve 1/ 5) length of spillway real, positive value
RATING-L	Spillway rating curve for large boards: - 'j' values of elevation followed by 'j' values of discharge - elevations - ascending order - within ELVSSTOR curve 1/ - 1st elevation = crest elevation (from GENL-L) - discharges - real, positive values - ascending order - 1st discharge = 0.0
[GENL-S]	Small board specifications (5 values): - needed only if number of small boards >0 - if needed, use same input format as for large board specifications, GENL-L
[RATING-S]	Spillway rating curve for small boards: - needed only if number of small boards >0

Keyword	Definition and Format
	- if needed, use same input format as for large board rating curve, RATING-L
[GENL-G]	Gate specifications (4 values): 1) crest elevation 2) pool elevation where gate opens - both real values - both values within ELVSSTOR curve 3) maximum gate opening - real, positive value 4) number of future periods to scan for max inflows - integer
[RATING-G]	Spillway rating curve for gates: - needed only if GENL-G entered - if needed, use same input format as for large board rating curve, RATING-L
[REPLQ]	Peak replacing discharge: - real, positive value - defaults to machine maximum

[HEADVSQ]	Head versus discharge curve:
	if defined here:
	- 'j' values of head followed by 'j' values of discharge
	- heads
	- real, positive values
	- ascending order
	- discharges
	- real, positive values
	- ascending order
	if referenced to original definition:
	- name and level number of scheme in which it was originally defined

[TWCURVE]	Tailwater rating curve name: - only allowed if HEADSVQ was entered - 8-character name - must be defined by FCINIT DEF-RC command - must match name of any other tailwater rating curve used in Reservoir Operation:
[CONV]	Convergence criterion for computing maximum generation curve: - only allowed if HEADVSQ was entered - real value between 0.0 and 1.0 - defaults to 0.02
[QGEN]	Constant maximum generation discharge: S only allowed if HEADVSGQ was not entered 2/

Keyword	Definition and Format
	- real, positive value - defaults to 0.0
[SLUICEQ]	Constant non-generation, non-spillway discharge: - real, positive value - defaults to 0.0
ENDPARMS	Parameter ending keyword for scheme
[TIME-SERIES] 3/	Time series opening keyword for scheme: S needed only if any time series are entered
[LARGEBDS]	Time series of observed number of large boards down: S data time interval = Operation data time interval - dimensions = DLES - units = NUM - missing values are allowed
[SMALLBDS]	Time series of observed number of small boards down: S only allowed if number of small boards >0 S data time interval = Operation data time interval - dimensions = DLES - units = NUM - missing values are allowed
[GATE]	Time series of observed flood gate openings: - only allowed if GENL-G entered S data time interval = Operation data time interval - dimensions = L - units = M - missing values are allowed
[GENQ]	Time series of observed and projected generation discharge: S data time interval = Operation data time interval - dimensions = L3 - units = CMSD - missing values are allowed
[SLUICEQ]	Time series of observed and projected sluice discharge: - same requirements as GENQ
[ENDTS]	Time series ending keyword for scheme: - needed only if TIME-SERIES was entered

Keyword	Definition and Format
[CARRYOVER]	Carryover opening keyword for scheme: - needed only if carryover is entered
[DOWN]	Number of boards down (2 values): 1) number of large boards down - required, defaults to 0 if not entered - integer - value ≤ number of large boards 2) [number of small boards down] - optional, needed only if number of small boards > 0 - defaults to 0 if needed and not entered - integer - value ≤ number of small
[GATE]	Gate opening: - only allowed if GATE was specified in PARMS - real, positive value - value ≤ maximum gate opening (GENL-G)
[ENDCO]	Carryover ending keyword for scheme: - needed only if CO was specified
ENDFLASH	Input ending keyword for scheme

Notes:

1/ ELVSSTOR is the elevation versus storage curve defined in the general parameter section.

2/ If neither HEADVSQ nor GENQ entered a value of 0.0 is stored for GENQ.

3/ See 'Time Series Definition' in Section V.3.3-RES-SNGL-SPEC.