

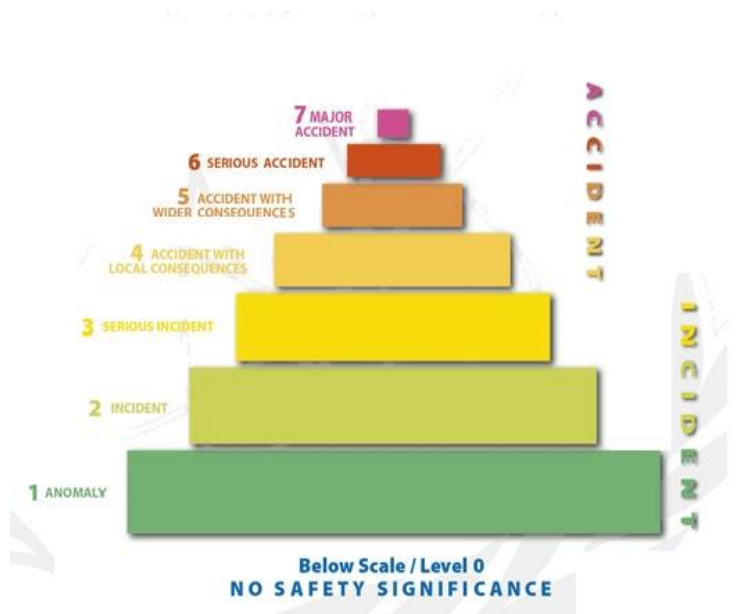
Significant Events

It is obligatory for operating nuclear power plants to report promptly to regulatory body, certain events that occur in the plant which have or may have impact on operational safety. Under the reporting system established by AERB, the events reportable to the regulatory body are divided into two categories, termed as,

- (a) Events and
- (b) Significant Events.

This categorization of events is done based on their safety significance and importance to operational safety experience feedback. Based on the established reporting criteria, event reports (ER) and significant event reports (SER) are submitted to AERB.

The SERs received from the operating NPPs are rated on the International Nuclear and Radiological Event Scale (INES) of International Atomic Energy Agency (IAEA). As per the INES, nuclear and radiological events depending on their safety significance can be classified at seven levels (1 to 7) as shown below.



Events rated at level 4 and above are termed as 'Accidents'. The accidents at Chernobyl NPP in former USSR (now in Ukraine) in April 1986 and Fukushima NPPs in Japan in March 2011 were rated at level 7 on INES. Events rated at levels 1, 2 and 3 are called 'Incidents'. Events with no safety significance are rated at level 0 or below scale.

During the year 2018, 33 significant events were reported from operating Indian NPPs. The station wise break-up of these events along with their INES ratings are given in table below:

Plants	INES Rating of Events			Total significant events reported during the year 2018
	0	1	>1	
TAPS 1 & 2	3	0	0	3
TAPS 3 & 4	5	0	0	5
RAPS-1 & 2	3*	0	0	3
RAPS-3 & 4	4	0	0	4
RAPS-5 & 6	0	0	0	0
MAPS-1 & 2	4*	0	0	4
NAPS-1 & 2	6	0	0	7 [§]
KAPS-1 & 2	0	0	0	0
KGS- 1 & 2	0	0	0	0
KGS- 3 & 4	2	0	0	2
KK-1&2	4	0	0	5 [§]
Total	31	0	0	33

Note:

* One event each at RAPS-2, MAPS-1& MAPS-2 are provisionally rated at level '0' as their investigations are in progress.

[§]INES is not applicable for two of the industrial safety event (Fatal accident) at NAPS-1&2 and KK-1&2.

During the period of January to June 2019, twenty three significant events were reported from operating NPPs. These events considering their safety significance were evaluated for INES rating as per the INES User's Manual. The station wise break-up of the events along with their INES ratings are given in table below:

Plants	INES Rating of Events			Significant events reported till June 2019
	0	1	>1	
TAPS 1 & 2	1	0	0	1
TAPS 3 & 4	1	0	0	1
RAPS-1 & 2	5*	0	0	5
RAPS-3 & 4	1	0	0	1
RAPS-5 & 6	2	0	0	2
MAPS-1 & 2	3	0	0	3
NAPS-1 & 2	1	0	0	1
KAPS-1 & 2	1	0	0	1
KGS- 1 & 2	3	0	0	3
KGS- 3 & 4	1	0	0	1
KK-1&2	3	0	0	4 [#]
Total	22	0	0	23

Note:

* One event at RAPS-2 is provisionally rated at level '0' as their investigations is in progress.

[#]One event reported from KK-1&2 is related to industrial safety, hence it is not rated on INES.