**Events classified as Significant this month:**

None

**Events classified as Noteworthy this month:**

|  |  |
| --- | --- |
| [**WER PAR 17-0846**](http://www.wano.org/OperatingExperience/OE_Database_2012/Pages/EventReportDetail.aspx?ids=30390) | Exceeding of the 5% nominal power/min following a spurious closure / opening of a turbine main governor valve |
| [**WER PAR 17-0842**](http://www.wano.org/OperatingExperience/OE_Database_2012/Pages/EventReportDetail.aspx?ids=30386) | Safe shutdown of the unit further to unavailability of the emergency diesel generator |
| [**WER PAR 17-0814**](http://www.wano.org/OperatingExperience/OE_Database_2012/Pages/EventReportDetail.aspx?ids=30309) | Foreign material detected in the Safety Injection System during outage |
| [**WER PAR 17-0811**](http://www.wano.org/OperatingExperience/OE_Database_2012/Pages/EventReportDetail.aspx?ids=30247) | #PRELIMINARY# : 4 units shut down in response to an order from the regulator to strengthen a part of the flood defence upstream of the plant.  |
| [**WER PAR 17-0784**](http://www.wano.org/OperatingExperience/OE_Database_2012/Pages/EventReportDetail.aspx?ids=30219) | Loss of Spent Fuel Pool cooling during execution of a test |
| [**WER PAR 17-0752**](http://www.wano.org/OperatingExperience/OE_Database_2012/Pages/EventReportDetail.aspx?ids=30159) | Bypasses in the volumetric protection could cause flooding from the turbine hall to the electrical building |
| [**WER ATL 17-1290**](http://www.wano.org/OperatingExperience/OE_Database_2012/Pages/EventReportDetail.aspx?ids=30261) | Loss of 480V Bus While Preparing for Diesel Test |

**New documents issued this month:**

None

**Performance Analysis (PA) comments**

Most of the Noteworthy events this month have a common theme of inadequate risk assessment by workers. Inadequate risk assessment is also a recurring cause for many events reported to WANO.

In one event, the risk of introduction of foreign material was underestimated causing unavailability of a safety injection pump and resulting in an outage extension of 25 days. In another event, inadequate risk assessment and ineffective communication between workers resulted in loss of spent fuel pool cooling during an outage.

[WANO SOER 2015-2 “Risk management challenges”](https://members.wano.org/library/soers-sers-jits-and-analysis-reports/wano-soers/soer-2015-2) provides useful recommendations to address this kind of issues and could help prevent similar events. Currently, around 92% of the recommendations of this SOER have not been reviewed yet.

Regarding reporting events, PC is still behind the number of events reported in previous years – for comparison last years at this time, PC reported 992 events, i.e. 158 more than this year. On the other hand, TC is reporting significantly more events than previous years.

**Statistics**

**Event Reporting Level and Timeliness**

**WANO Event Reports (WERs) & Preliminary WERs published by PACT**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Year** | **Atlanta** | **Moscow** | **Paris** | **Tokyo** | **Total** |
| **2017** | **1308** | **236** | **834** | **527** | **2,905** |
| 2016 | 1533 | 274 | 1134 | 478 | 3,419 |
| 2015 | 1443 | 273 | 1038 | 329 | 3,083 |

**Units in operations (after first criticality)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Atlanta** | **Moscow** | **Paris** | **Tokyo** | **Total** |
| *No. of operational units* | *125* | *76* | *146* | *111* | *458* |
| *No. of units with no WER in the past 12 months* | *-* | *2* *(Icebreaker Fleet 1, Khmelnitsky 1)* | *-* | *2* *(Kaiga 4, Madras 1)* | *4* |

**WER Reporting Median (Days) – Goal of 140 days**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Year** | **Atlanta** | **Moscow** | **Paris** | **Tokyo** |
| **2017** | **117** | **112** | **158** | **126** |
| 2016 | 118 | 102 | 133 | 126 |
| 2015 | 99 | 108 | 127 | 118 |

**Preliminary WER Reporting Median (Days) – Goal of 30 days**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Year** | **Atlanta** | **Moscow** | **Paris** | **Tokyo** |
| **2017** | **42** | **2** | **27** | **32** |
| 2016 | 14 | 2 | 61 | 123 |
| 2015 | 23 | 2 | 58 | 54 |

**Notes:**

Event reporting numbers are based on the following rules: If a WER or Preliminary WER was updated, the updated version is not counted as a newly reported event. If a single event affects more than one unit at a station, this is counted as one report. A generic WER affecting a fleet of plants or more than one plant is also counted as one report.