

Challenges posed by Covid-19 for the Nuclear Industry



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Expectations on the nuclear industry during the Covid-19 outbreak

- Important function in the community
- Reliable producer of electricity
- Safe



- Pandemic as an emergency situation
- Working together with the community
 - local authorities
 - hospitals
- Planning
- Essential personnel for safety technical operating conditions
- Nuclear industry is used to
 - instructions, adaptation: acceptance
 - radiological contaminations
- Ability to postponing activities

Challenges

- Borders or regions temporarily closed
- Deliveries of PPE
- Outages
- Keep social distancing, especially in RCA
- Manage distance working
- Mines are closed communities
 - Any incident could affect entire workforce
 - Fly-in, Fly-out workforce could mitigate spread
- Transport affected — production issues

Measures taken

- Duration of outages depending on Covid-19
- Identifying critical groups
 - Operators, RP, Chemistry, Fire protection, Security, Emergency preparedness function, Key management
- As many as possible worked from home
- Limiting number of concurrent jobs during outages
- Time slots
- Rerouting personnel, e.g. one-directional stairways
- Appointed Covid-ambassadors
- Updated information

...Measures taken

- Physical (social) distancing and PPE
- Introducing plexiglass screens in offices and in controlled areas
- Remote supervision and communication via Webex, cameras, monitors
- Daily self-checks (questionnaire), temperature scanning
- Washing hands frequently, personal hand sanitizers
- Frequent cleaning



Negative Effects

- Economical impact
 - Production loss
 - Temporary shutdown of some mine sites
 - Other costs are difficult to estimate
- Prolonged outages or prolongation of upcoming outages
- Extensive planning

Positive outcome

- Very few confirmed cases
- Work force
 - is used to accept instructions
 - flexible and can easily reorganise
- Most mines could continue to operate
- No shutdowns of NPP due to the pandemic

Good Practice

- Remote surveys and communication
- Staggered work shifts
- Time slots
- Nominee for Good Practice during the pandemic

Net impact on Covid-19 on nuclear industry

- Very few confirmed cases
- Safety first
- Reliable producer of electricity
- No impacts on fuel supply for the nuclear industry
- Nuclear industry is prepared
- Economic loss



Thank you for your attention

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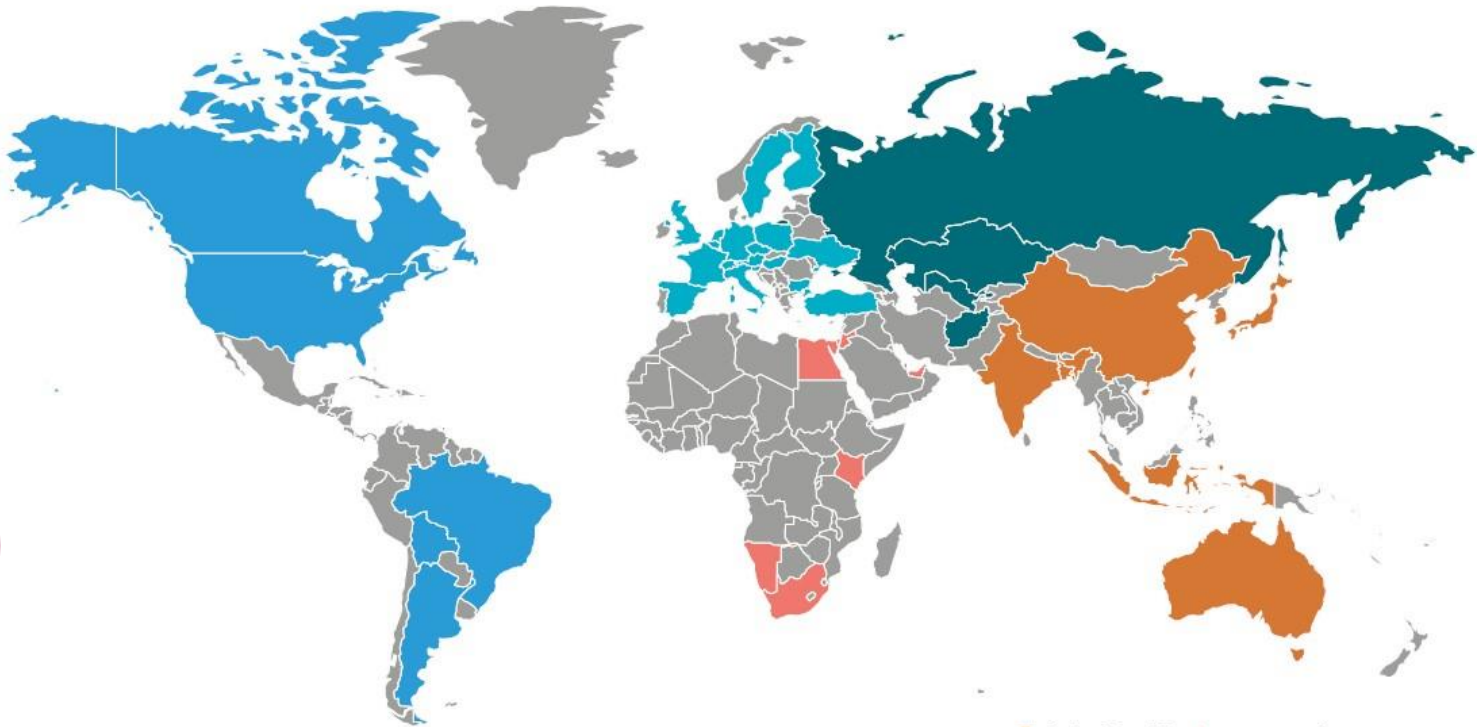
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