



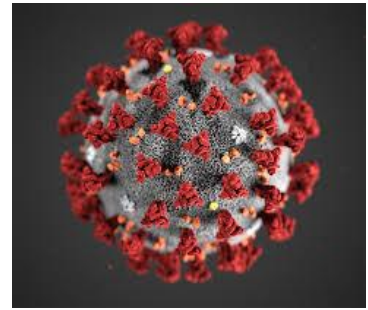
Survey of Seveso sites on Covid-19 pandemic challenges

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Ragnhild Gjøstein Larsen
Norwegian Directorate for Civil Protection

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The Covid-19-pandemic survey



- Performed 5. to 25. November 2020.
- Sent to all Seveso sites in Norway, 165 possible respondents representing approximately 320 sites
 - Answers received from 59 % of the responders
 - 36% of the answers represented multiple sites

Purpose of survey

- Collect information on possible safety challenges and the handling of these
- Identify success criteria
- Check out if there had been accidents or near misses caused by the pandemic (directly or indirectly)
- Share the results with the Seveso sites and others in order for everyone to learn from the situation.
- Report will be published on our website.



How well prepared were they when Norway «shut down» March 12?

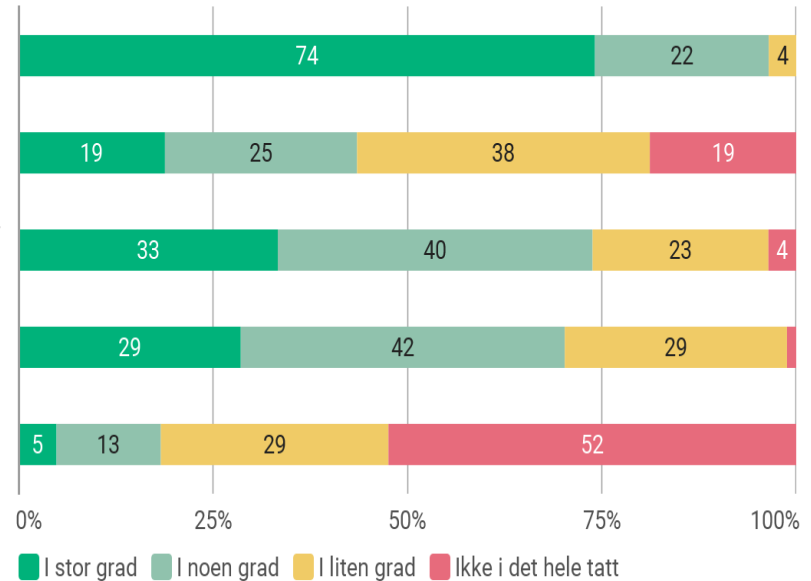
Roles and responsibilities?

Included in risk analyses?

Emergency plans adapted to this kind of situation?

Procedures in place?

Organisation had performed pandemic emergency drills?



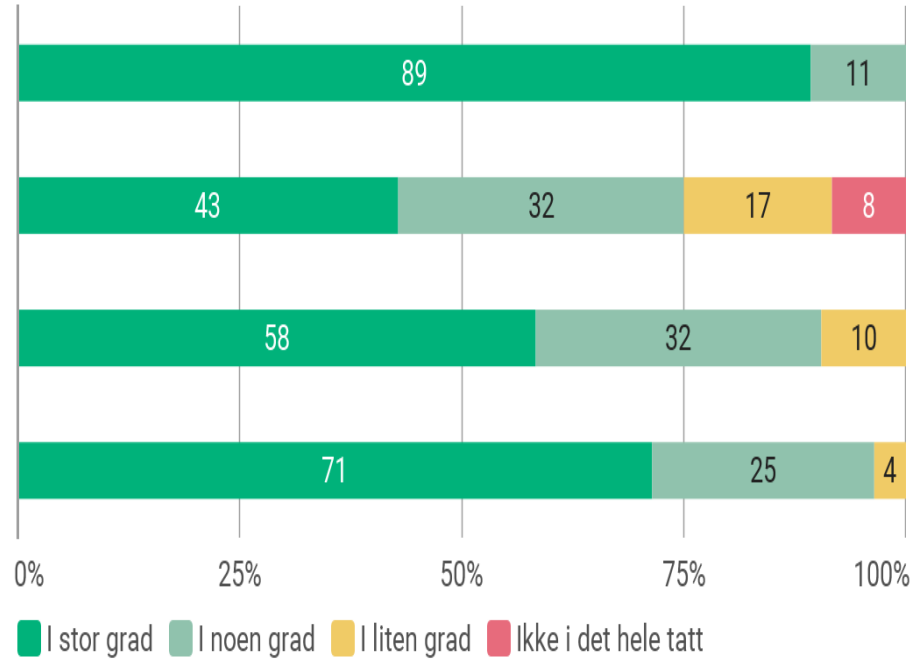
And how well are they now (november) prepared?

Roles and responsibilities?

Included in risk analyses?

Emergency plans adapted to this kind of situation?

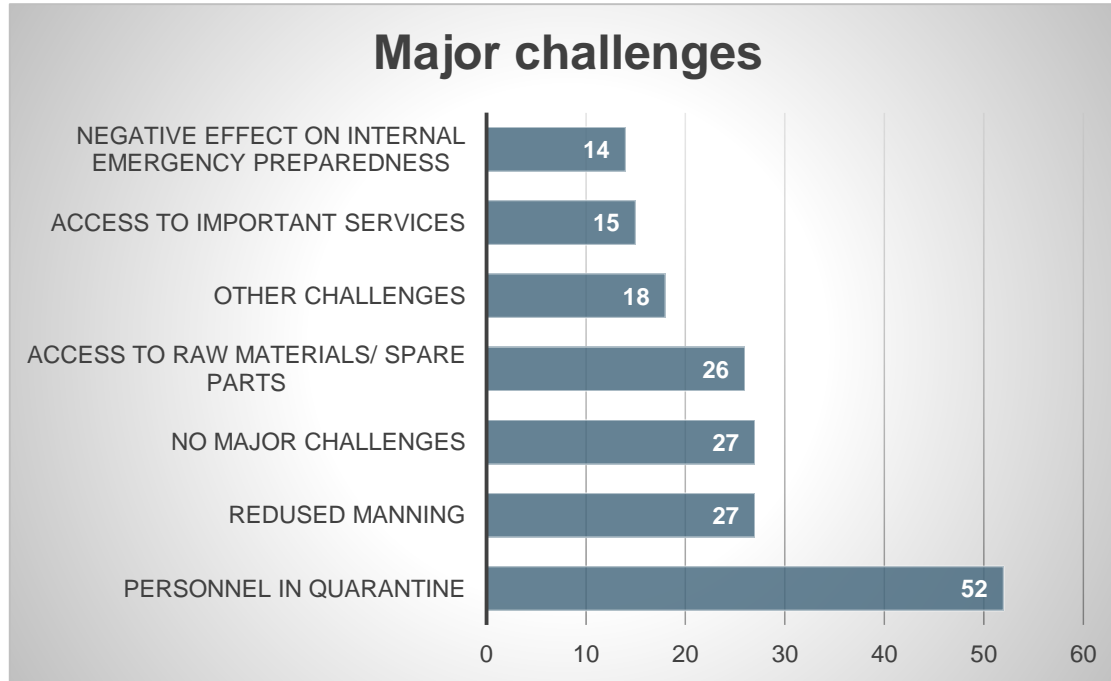
Procedures in place?



Additional comments

- Pandemic had been evaluated in the risk analysis, but they were not «hit» in the way they had expected.
 - The scale of closing down, restricting access to the plant was underestimated
 - Corrective actions like bringing in external personnel became difficult.
- No scenarios on a pandemic situation.
- Emergency preparedness plans did not include continuity planning or planning for a large amount of people being absent.
- Others commented that their continuity plans had functioned well.

Challenges due to The Covid-19-pandemic



Other challenges:

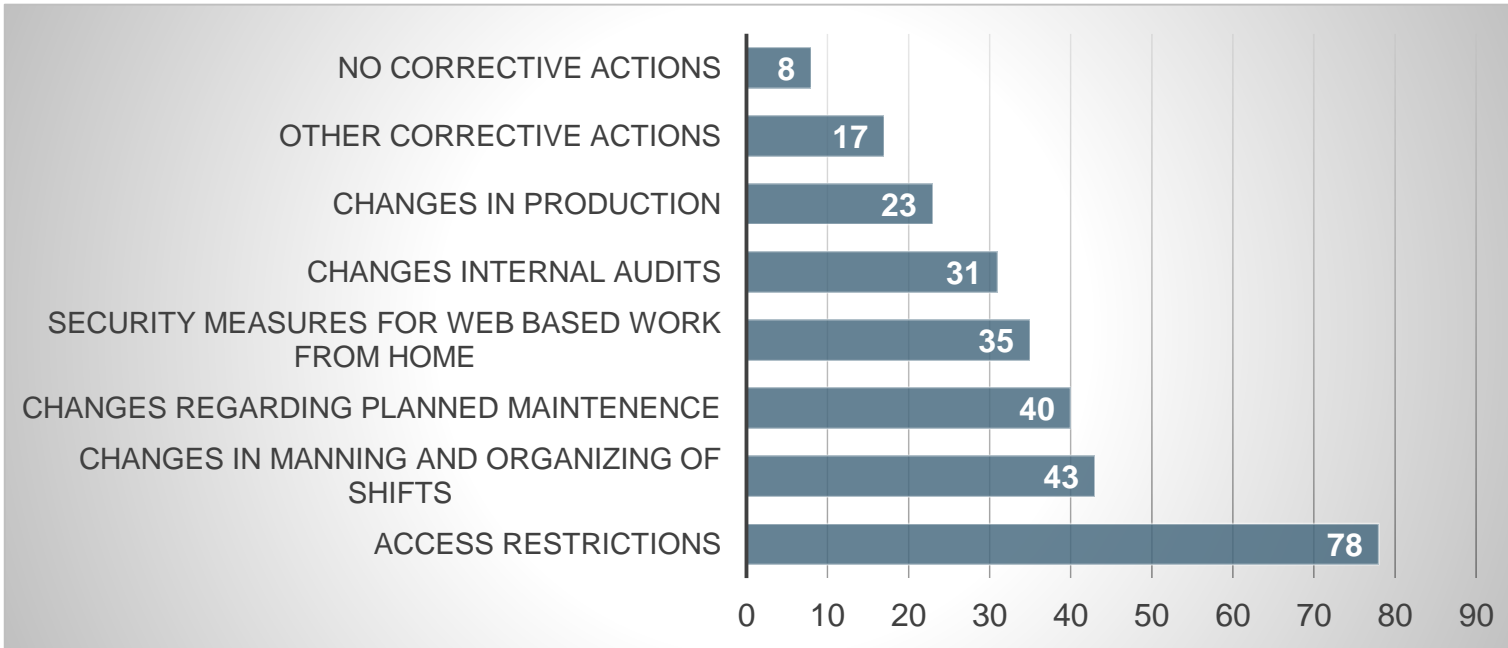
- Redused competency demands in order to continue operation (7 %)
- Delayed maintenance
- Delayed improvement projects
- Deliveries from abroad
- Economical challenges affecting safe operation (2%)

No reports of accidents due to the situation.

Challenges regarding personnel and foreign workers/ specialists.

- Planning has been more difficult
- Key personnel in quarantine
- Especially challenging for shift personnel
- Closed schools made working from home difficult for some
- Limited access to servicepersonnel and specialists due to travel restrictions
 - Quarantine demands upon arrival.
 - Different restrictions to and from different countrys.

Corrective actions taken



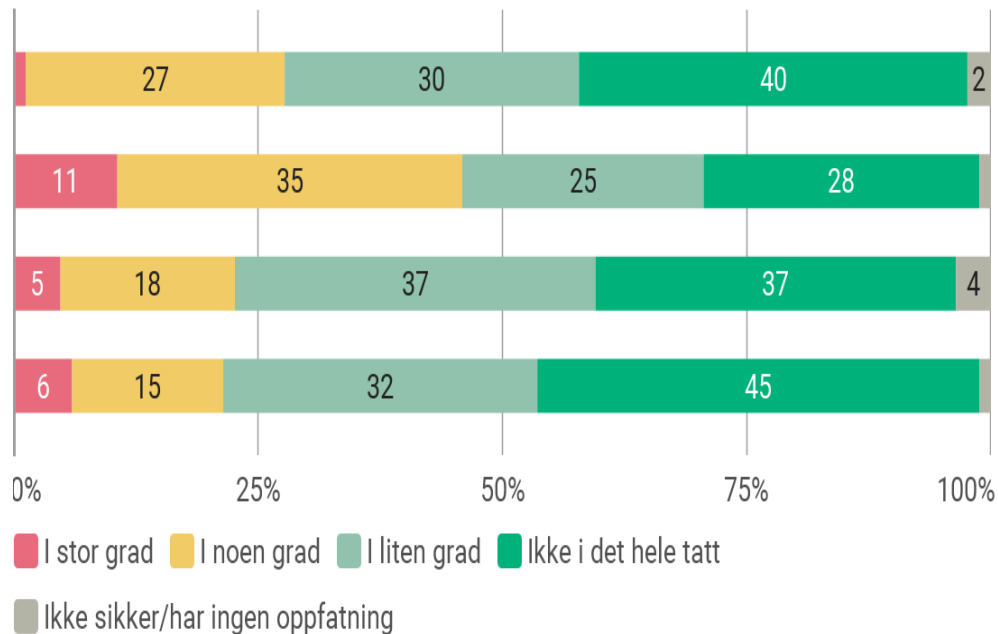
Specific corrective actions mentioned in comments

- Specific shielding of emergency preparedness personnel.
- Changed process for shift handover
- Contact restrictions between work teams and defined cohorts.
- No face-to-face meetings.
- Only production personnel and personnel performing other critical work had access to the plant.
- Internal audits on Teams.



Consequences Covid-19

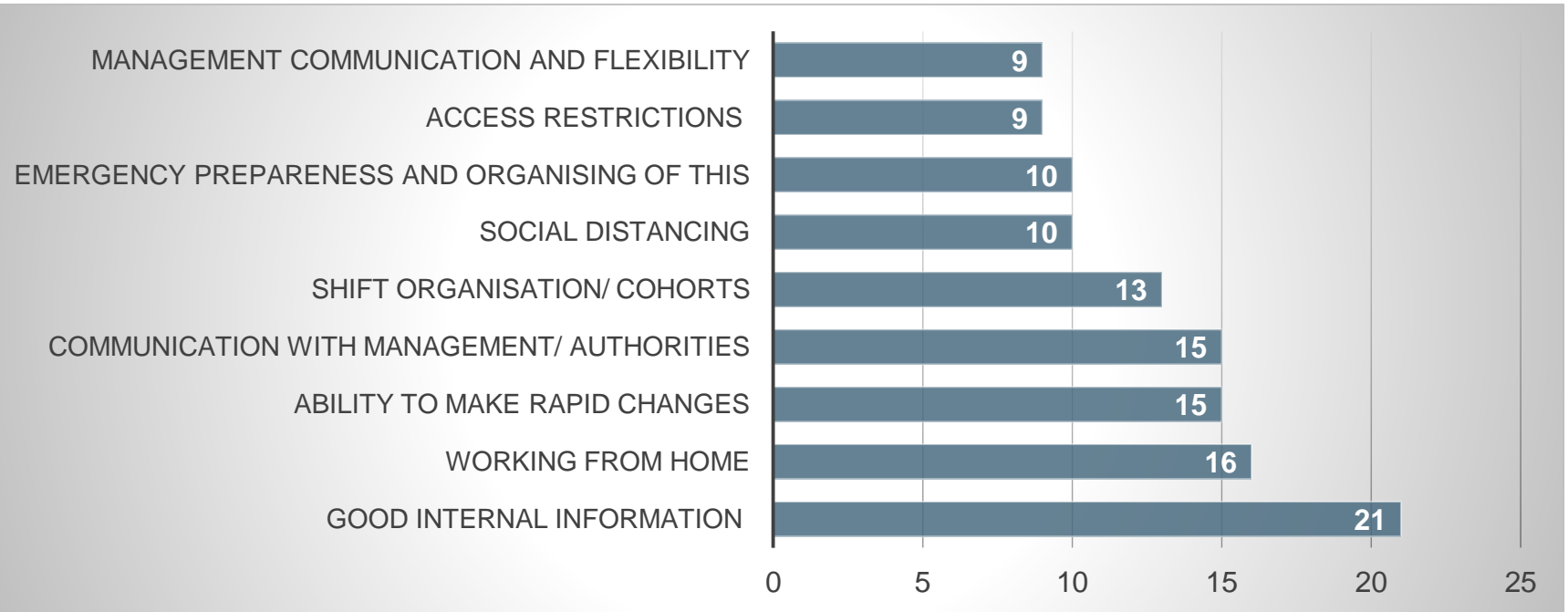
- Maintenance backlogs
- Postponed emergency training/ excersises
- Economical difficulties
- Reduced or stopped production/ activities



Comments regarding Maintenance

- «Never been as updated as now».
- Turnarounds (longer stops for maintenance) have been postponed.
- Huge pressure on personnel in order to maintain normal operation.
- Maintenance of safety critical equipment and critical equipment for operation of the plant has been prioritised.
- Technical integrity evaluation has been performed in connection with postponing of maintenance.
- Competency challenges due to difficulties getting specialists from abroad.

Success criteria



How will we use this information?

- Share with the Seveso establishments
- Follow up of identified challenges in our inspections:
 - This year MOC and an obligatory question on Covid-19
 - Maintenance back-logs
 - Postponed emergency training/ exercises
- In the survey we also asked questions regarding if and how information from the Seveso Competent Authorities was received, and will discuss possible improvements.



This publication of the European community on Common Inspection Criteria is intended to share knowledge about technical measures and enforcement practices related to major hazard control and implementation of the Seveso II Directive. The criteria were developed by Seveso inspectors to aid in dissemination of good enforcement and risk management practices for the control of major industrial hazards in Europe and elsewhere.