Sanitary Risks Management

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Veolia Water's Crisis Management Framework



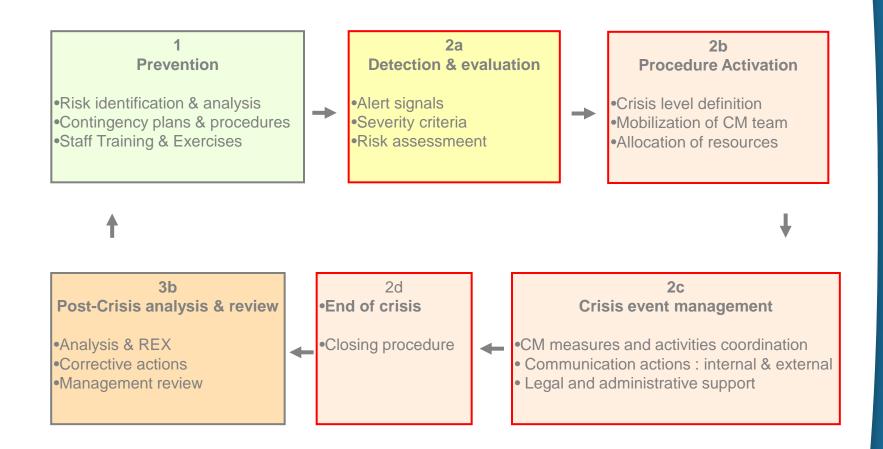




Corporate Framework

- Water Division (over 90M customers worldwide, numerous DW & WW contracts)
 - A common Crisis Management Framework for BU
- Crisis procedures adjusted to crisis level (severity criteria)
 - Regional level
 - ->Local & Regional Crisis Management Procedures
 - National or Business Units level
 - →Veolia Water France's Alert and Crisis Management Procedure
 - Corporate
 - →Veolia Environment's Group Alert Procedure
- Supplemented by specific risks procedures
 - Pollution Alert Plan, Continuity of Activity Plan, VIGIPIRATE

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Pre-crisis Phase

- Risk prevention measures (e.g. GPRS, FMEA & HAZOP, ISO 14001, etc.)
- Definition of CM organization (team, plans & procedures)
- Monitoring & surveillance, alert system, contingency planning
- Mutual resources (e.g. CAE, list of mobile treatment units, expertise)

Crisis Management

- Crisis event confirmation & severity evaluation (checklists & tables)
- Constitution & mobilisation of CM team (functional & technical staff list)
- Crisis "daybook" and record keeping (e.g. administrative and legal support documents)
- Practical sheets (e.g. essential sampling equipments, CM Directory)

Post-Crisis Management

- Crisis report
- Crisis analysis & CM procedure review required

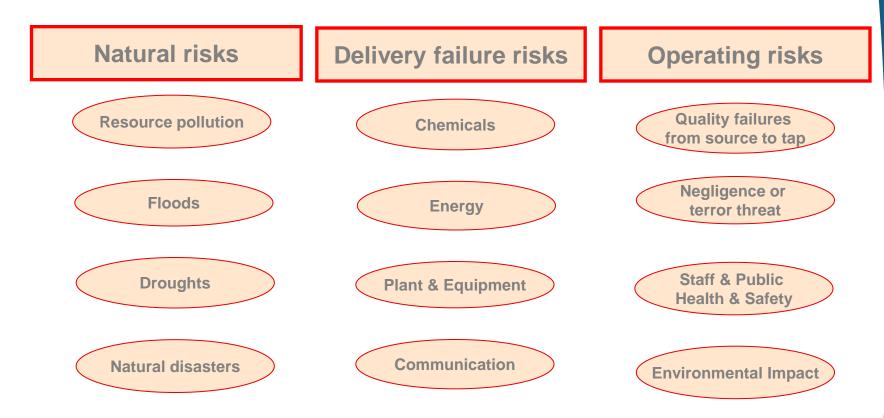
Sanitary Risks Management







Risks identification & evaluation

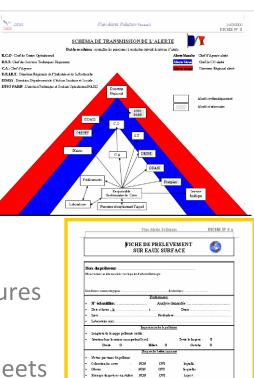




Our everyday's job!

Specific Procedures: Pollution alert plan

- Addresses 3 types of pollutions
 - Surface water pollution
 - Groundwater pollution
 - Network pollution
- 35 sheets + 9 legal notes + 8 appendices
 - Alert and severity evaluation sheets
 - Technical data and advice on contingency procedures
 - Directory & mutual resources availability lists
 - Pollution monitoring procedures and recording sheets
 - Sampling sheets & protocols
 - Legal and administrative advice



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Specific Procedures: Terror threat

- France's national security alert & planning system
 - Objectives : protection & preparation against terror threat
 - 4 levels of alert (yellow, orange, red, scarlet)
- Water = essential service = dedicated sector plan
 - 20 basic measures + additional measures (revel of alert)
 - Measures cover: water resource, IS, general operation, private & public buildings or places
 - Current level of alert for water sector : yellow/orange!
- Veolia Water internal procedure for terror threat alerts
- Example of additional measures : chlorination
 - Status Yellow : operator has to be capable of implementing compulsory chlorination measures within 3d (0,3mg/l free Cl2 in reservoirs, 0,1mg/l on network)

Specific Procedures: Flooding

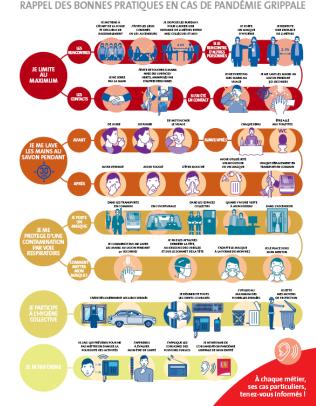
- EU Directive + French legislation = Flood risk planning (e.g. PPRI)
- Site specific evaluation of flooding risks (e.g. flood level frequency curve, site history)
- Internal flood risks management plans
- Site Specific Measures
 - Interconnections & alternative supplies
 - Water proofing of plants & equipment (e.g. duct proofing, flood defences)
 - Alert systems
- REX
 - Prague
 - Görlitz





Specific Procedures: Continuity of Activity Plan

- French government plan during the Avian influenza pandemic threat in 2008
- Request for essential services to develop CA plans
 - manage shortage of resources
 - maintain staff Health &Safety
- Coordinated at corporate level
 - Entity specific CA Plan (e.g. DTS)
 - →Diffusion of hygiene guidelines
 - ->Provision of protective equipment
 - →Exercises and simulation
 - →Reflex sheets



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Conclusion

- Sanitary Risk Management is our everyday's job
- Unforeseen events require different response procedures and mechanisms (Crisis Management)
- The Pre-Crises phase is as important as the Crises Management Phase (Risk identification and assessments, specific risk mitigation measures)
- Zero risks vs. acceptable residual risk (types of risks sustainable compromise)
- At corporate level CM requires a high degree of internal coordination & transparent external communication
- CM success relies on adequate resources allocation and coordination

Thank You!

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