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| **Establishment:****S3IC No.:** **Type of activity :****Status :**Seveso high thresholdSeveso low threshold | **Date of inspection visit:****Type of inspection visit:**CurrentThorough | **Name of inspector(s):** |
| **People met and function:****Controlled facilities:** | **Theme of the visit:**National action 2018: Consideration of flood risk**List of documents consulted:** |
| **Reference documents :**– prefectural decree of XXX , art icle XXX– hazard study s of XXX, page XXX**Useful documents:**– national guide relating to the consideration of flooding on industrial sites**Case of no responses from the operator:**The operator is asked to specify whether to propose actions/reflections when he answers no to a question. |

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| **Introduction** |
| **Issues** | **Operator responses** | **Findings and Observations** |
| Do technical requirements apply to the operator? | Yes NoRequirements from:Prefectural decreePPRIOther : | **Findings:****Observation No:** |

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| **1- Characterization of the flood hazard** |
| **Issues** | **Operator responses** | **Findings and Observations** |
| 1 – What type of flood risk is identified on the industrial site? | Overflow by slow floodOverflow by flash floodrunoffMarine submersion by overflowMarine submersion by crossingHydraulic structure failureOthers : | **Findings:****Observation No:** |
| 2 – What reference documents did the operator use to characterize the flood hazard impacting the industrial site? What is the methodology used? | The information available on the industrial site comes from the following documents:Approximate Envelope Potential Flood Maps (EAIP)Territory at risk of flooding (TRI)Flood risk prevention plan (PPRI)Coastal risk prevention plan (PPRL)Atlas of flood zones (AZI)National mapping of territories vulnerable to coastal risksFlood Historical Database (BDHI)Flood marker databaseMeasurements taken on the industrial site by REX, internal mapsHazard study relating to the hydraulic structureOther :The operator primarily used information from the following documents:1:2:3: | **Findings:****Observation No:** |
| 3 – What are the characteristics of the hazard identified? | Reference flood (date and frequency of return):Flow axis:Height of Highest Known Water (PHEC):Kinetics of the phenomenon:* ascent and descent speed:
* current speed:
 | **Findings:****Observation No:** |

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| **2- Feedback** |
| **Issues** | **Operator responses** | **Findings and Observations** |
| 4 – Are flooding events recorded on the industrial site? | Yes NoHow many ? | **Findings:****Observation No:** |
| Event date :Event Features:Consequences (direct (fire, explosion, toxic cloud) or indirect (discharges, pollution) and impact on the interests of L. 511-1 of the environmental code :Actions implemented during the crisis:Feedback from this event: | **Findings:****Observation No:** |

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| **3- Vulnerability of installations** |
| **Issues** | **Operator responses** | **Findings and Observations** |
| 5 – Has the risk associated with flooding been studied by the operator as an initiating event? | The operator has studied the flood risk in its hazard study or in a specific study:Yes NoIf yes, the operator has:Characterized the hazard impacting its establishmentDescribes possible associated potential accidentsAnalyzed the vulnerability of existing installationsIdentified the preventive measures to be implementedIdentified the protective measures to be implementedIdentified and analyzed accidentology and reviewed lessons learned | **Findings:****Observation No:** |
| 6 – How did the licensee identify vulnerable industrial equipment? | The operator considered:All property facilitiesAll classified installationsClassified installations falling under the following headings:Facilities using substances covered by the following hazard statements:Waste storage facilitiesRadioactive sources and wasteThe facilities concerned by a major accident identified in the EDDUtilitiesRisk control measures (RMM)Mobile installations (wagons/tank trucks transporting hazardous substances)Other :No installationTo identify this sensitive equipment, the operator has adopted the following methodology:Has a prioritization of the equipment to be protected been carried out?Yes NoHow ? | **Findings:****Observation No:** |

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| **4- Hazard monitoring** |
| **Issues** | **Operator responses** | **Findings and Observations** |
| 7 – How does the operator detect the hazard? | The operator uses the following information channel:Vigicrue website (vigicrue map, monitoring bulletins, subscription to a station's measurement flow?)Vigicrues FlashFrance weather website (vigilance map and monitoring bulletin)Surveillance and alert system of the municipality or other actor (agreement?)Flood Forecasting Service (SPC)Information given by public authorities (town hall/prefecture)Information given by the mediaInformation given by a service providerSpecial information agreementInternal measuring device on siteVisual detection, surveillance round on the siteNo detection systemLink with structure manager (dam break for example)Other : | **Findings:****Observation No:** |
| 8 – How does the operator follow the evolution of the hazard? | The operator monitors the evolution of the rising waters via:Monitoring of the aforementioned information channelNo monitoring systemDoes the operator keep a record of this development?Yes No | **Findings:****Observation No:** |

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| **5- Crisis management** |
| **Issues** | **Operator responses** | **Findings and Observations** |
| 9 – Does the ORSEC plan or the PPI provide for a flood crisis management component involving the industrialist? | Yes NoIf so, what are the measures that apply to the manufacturer?:–**–** | **Findings:****Observation No:** |
| 10 – Does the organization set up on the site allow the operatorto adjust its crisis management in order to ensure the safety of its facilities for a flood greater than the 100-year flood? | Yes NoIf yes, how is it organised?–**–** | **Findings:****Observation No:** |
| 11 – How is the internal alert system defined? | The alert system set up by the operator consists of:A pre-alert phase initiated at the water level:An alert phase triggered at the water level:The end of the alert considered at the water level:If pre-alert, this phase consists of:Follow the evolution of the natural phenomenonEnsure that the necessary resources (human and material) are operational if the alert threshold is reachedOther :The alert phase may consist of:Implement the internal operation planCall the site's on-call dutyEvacuate staffSecuring sensitive equipmentUp-to-the-minute information (town hall? prefecture? residents? media? etc.)Other : | **Findings:****Observation No:** |
| 12 – Should access to the site be maintained? | Yes NoCan the site be made inaccessible in the event of a crisis?Yes No Don't knowIf yes :For the evacuation of personnelYes NoTo ensure access to on-call dutyYes NoTo ensure access to external firefighters (SDIS)Yes No | **Findings:****Observation No:** |
| 13 – How is crisis management formalized? | Crisis management is formalized via:Installation fallback proceduresProcedure specific to the risk of flooding?Yes NoInternal operation plan proceduresOrganizational measures reflex sheetsMonitoring sheets for the evolution of the hazardSetting up a crisis unitOther :Do these procedures provide for progressive and graduated actions depending on the progress of the crisis?Yes No | **Findings:****Observation No:** |
| 14 – What safety actions should be implemented during the alert? | The security actions to be implemented during the crisis are:Provisional containmentSealing building openingsSecurement of mobile capacitiesMoving bulk storage (drums, IBCs, big bags, etc.)Installation elevationStopping an installation in productionDraining an installationManagement of arrivals and departures of tanks / wagonsUtilities shut downShutdown of the aqueous discharge treatment stationPumpingDisposal of hazardous substancesManagement of floating objectsExternal material deliveries (generators, etc.)Other : | **Findings:****Observation No:** |
| 15 – What is the time required to implement all the planned security actions? | Time to secure the industrial site including the mobilization of human and material resources:During business hours:Outside business hours:Is this time compatible with the kinetics of rising waters?Yes No Don't knowWas this safety time checked during an exercise?Yes NoHas this lockout time been verified during an actual flood event?Yes No | **Findings:****Observation No:** |
| 16 – Is a possible control/maintenance phase of the installations planned before restarting the activity? | Yes NoHow is this phase formalized (procedure, checklist, etc.)?Are MMRs checked before reboot?Yes No | **Findings:****Observation No:** |
| 17 – What technical measures are in place? (or planned) | The technical measures implemented are:Storage anchoringTank/wagon anchorbuilding locking systemBreakwater/cofferdamOther :Cost of these measures:How was the dimensioning/effectiveness of these measures assessed (mechanical resistance to flooding, etc.)?Is the effectiveness of these measures subject to checks/tests?Yes NoIs the aging (corrosion, etc.) of these devices taken into account?Yes No Not applicable | **Findings:****Observation No:** |
| 18 – Are organizational measures in place? | The planned organizational measures are:––Are the utilities necessary for the fallback of the installations available during the crisis?Yes NoAre the evacuations of substances/equipment off the site compatible with the reduced access implemented by the municipality (consistency with the municipal safeguard plan)?Yes No Not applicableAre staff trained (including through regular drills) to implement these organizational measures?Yes No Training/qualification not requiredWhat personnel can be mobilized?During business hours:DirectionPenaltyOperationSubcontractorsAllOutside business hours:DirectionPenaltyOperationSubcontractorsAllDoes the implementation of these measures require specific skills?Yes NoIs the use of external resources necessary to implement these measures?Yes No | **Findings:****Observation No:** |

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| **6- On-site control** |
| **Issues** | **Operator responses** | **Findings and Observations** |
| 19 – Are the technical requirements respected? | Field checks:Yes No Not applicable | **Findings:****Observation No:** |
| 20 – Are the technical measures properly implemented? | Yes No | **Findings:****Observation No:** |
| 21 – Are the organizational measures well implemented? | Yes No | **Findings:****Observation No:** |