

- Vulnerability / trafficability

- → Design at T100 years + check until 1.8xT100

4. CONCLUSION / FEEDBACKS:

THE SAINT-AVERTIN CONNECTION BETWEEN ATLANTIC HSL AND SEA HSL, **A SECTOR HYDRAULICALLY CONSTRAINED** DESIGNED TO BE ROBUST AND RESILIENT AGAINST HEAVY RAINS & FLOOD RISK Julien Baron, Abdelkarim El Archi, Emmanuel Augé, Pascal Blanc, Dominique Facchetti

a) Analysis of flood risk in nominal situation = with correct maintenance "Derailment following a flood event" at the highest level of gravity Frequency of occurrence T100 + 2xFAILURE (hourly probability): P = 1.49.10-14

b) Flood risk analysis in case of general failure = absolute case with T100 + no pumps/alarms

Failure + T100: Storage volume T100 in 5h44 with water level in the pond Failure + pond filled T100 + T100: 2nd V100 in 5h44 with water level < track

3. SPECIFIC STUDIES (top of cutting)



Geotechnical verification of the stability (static, critical, seismic)



This case-study is an example of methodology for the choice of the scenario until extreme occurrences Specific hazard areas has to be monitored closely as soon as possible due to long processing times





Hydraulics / Hydrologic check and adaptation

