

CHANNEL TUNNEL SAFETY AUTHORITY WORK PLAN – 2022

A. SUPERVISION

	Inspection/audit subject	Link to the supervision strategy of the IGC	Objective	Methodology	Frequency and resources
	RESCUE & PUBLIC SAFETY ISSUES (WG1)				
A1	Risks relating to Lithium Ion batteries	Emergency response Management of safety	To assess Eurotunnel's plans for the risk management of all procedures where Lithium-Ion batteries are involved	Eurotunnel risk assessments have been submitted via Dangerous Goods sub-group. Working Group 1 (WG1) to report to CTSA after assessing risk assessments. Specific workshops being arranged by ET to review FLOR and SLOR operational procedures.	Continuation of work from 2021 Attendance at Dangerous Goods sub-group meetings, as required Representatives from WG1's UK and FR delegations
A2	Fire detection systems	Management of ageing equipment and infrastructure Emergency response Management of	Follow-up of the CTSA inspection undertaken in April 2016 and RAIB/BEATT report on 2015 fire (recommendation 2) Review Eurotunnel's	Specific meetings being arranged to discuss detailed plans. Fire and rescue representatives from both delegations to liaise with ET, reporting to WG1 on progress	Continuation of work from 2021 CTSA inspectors UK and FR

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		safety	<p>independent review of its fire detection systems and any replacement project plans</p> <p>Particular focus on the Running Tunnels and on board HGV shuttles</p> <p>Confirm what review process is used to assess any new technology developments that could improve the speed and efficiency of fire detection</p>	of the project	
A3	Communications systems used in the event of an emergency	<p>Emergency response</p> <p>Management of safety</p>	Review the existing arrangements for communications systems and procedures in the event of an emergency	<p>UK – Department for Transport (DfT) is leading the Emergency Services Network (ESN) national project with members of emergency services involved in regular meetings.</p> <p>France –members of emergency services involved in regular meetings for Réseau radio du futur (RRF) project</p> <p>WG1 working on the</p>	<p>Continuation of work from 2021</p> <p>WG1 UK and FR representatives involved in regular meetings in respective countries</p>

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				short/medium term position with ET to utilise wifi systems for communications methods (voice, data and video)	
A4	Fixed firefighting installations in the Tunnels	Emergency response Management of safety	To assess the working condition and maintenance arrangements for the fixed firefighting installations in the Tunnels (hydrants, water main, SAFE stations)	Inspection of a sample of the installations, maintenance records and interviews with selected personnel	CTSA inspectors UK and FR
A5	Emergency Sidings	Emergency response Management of equipment and infrastructure	To examine the operational procedures for the deployment of incident trains to the emergency sidings	Inspection of written procedures and interviews with RCC/Emergency Management staff	CTSA inspectors UK and FR
A6	FLOR (UK and FR) Operational Procedures	Emergency response Management of safety	To assess the adequacy of the documented FLOR emergency response procedures. This item will also follow up the points raised in 2015 firefighting review (recommendations 9 and 11 relating to Fr FLOR)	Inspections to examine the FLOR operational procedures, training records and interviews with FLOR Commanders/personnel.	CTSA inspectors UK and FR

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A7	Emergency response arrangements for security-related incidents	Emergency response	Review the current arrangements for ET and SLOR in relation to security-related incidents (including Follow up outcomes and recommendations following the Binat 27 and 28 exercises	Home Office leading for UK Specific plans (UK and FR) to be developed by emergency services with ET and discussed at WG1 Plans to incorporate the medical care arrangements for severe trauma incidents	Follow-on work from 2021 WG1 UK and FR representatives involved in regular meetings
A8	Refurbishment of UK's Incident Coordination Centre (ICC)	Management of safety Emergency response	Relocation of assets in the ICC according to UK emergency services requirements	Liaison meetings between emergency services and ET UK emergency services have developed a specification for the requirements ET to implement the project plan for the refurbishment works	Follow on work from 2021 as ET were unable to complete this work due to the pandemic Emergency services representatives from WG1
A9	Gas-powered HGVs	Management of safety Emergency response	ET are preparing a safety dossier for the transportation of gas powered HGVs as they are becoming more prevalent in haulage industry	Meetings with ET and WG1 representatives to discuss the safety implications. Review of safety analysis in accordance with CSM RA	Follow on work from 2021 CTSA inspectors UK and FR Meetings via WG1 Dangerous Goods sub group

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A10	ElecLink safety exercise	Management of safety Emergency response	To monitor the ET unannounced safety exercise to test the ElecLink emergency shut down arrangements	Attend planning meetings and provide observers for the exercise.	CTSA inspectors UK and FR
A11	Emergency Planning	Emergency response	To monitor ET's review of its emergency planning arrangements following the catenary incident of 23/10/2021 and CTSA's 2021 inspection of preparation for severe weather events	Analysis of various reports from ET's external consultants and ET's improvement plan based on their findings Attend meetings with ET to provide feedback and gauge progress	CTSA inspectors UK and FR
	RAIL SAFETY & TRANSPORT ISSUES				
	Planned preventive inspections				
A12	Eurostar Safe reintroduction of the e300 fleet following the Covid pandemic	Management of safety	Review how EIL applied its engineering change management and competence arrangements to reintroduce the fleet into operational service	Inspection visits to look at how EIL identified and managed the risks for bringing the fleet back into safe operational service	CTSA inspectors UK (lead) and FR. 10 days – site visits and producing report

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	Planned reactive work				
A13	<p>Eurotunnel</p> <p>Change management with particular reference to Vol E changes</p>	<p>Management of safety</p> <p>Emergency response</p>	<p>Investigate how changes (which were reversed) in relation to SAFE stations for fighting fires on passenger trains and use of platforms as alternative to emergency sidings were managed. For example:</p> <ul style="list-style-type: none"> • whether change management procedures were adequate and applied effectively; • whether risks were assessed and communicated to affected parties. 	<p>Feedback and update from ORR after it completes its investigation of how ET managed the change, associated risks and communications to affected parties</p>	<p>CTSA inspectors (UK and FR) to consider findings of ORR inspectors' investigation, which is expected to be completed by end May 2022</p>
A14	<p>Eurotunnel</p> <p>Recommendations in the BEA-TT/RAIB report of 17 January 2015 incident</p>	<p>Eurotunnel safety management system</p>	<p>Monitor implementation of Eurotunnel action plan</p> <p>Contribute to the IGC's yearly progress update to BEA-TT/RAIB</p>	<p>Through WG1 and CTSA meetings/correspondence</p>	<p>Continuation of ongoing work</p> <p>CTSA inspectors UK and FR</p>

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A15	DB Cargo	Safety management and learning from experience		<p>Follow-up of the action plan agreed following the 2021 inspection (continuous work)</p> <p>Follow-up of open recommendations from previous inspections (continuous work)</p>	CTSA inspectors FR (lead) and UK
A16	GB Railfreight	Safety management and learning from experience		<p>Follow-up of the action plan agreed following the 2021 inspection (continuous work)</p> <p>Follow-up of open recommendations from previous inspections (continuous work)</p>	CTSA inspectors FR (lead) and UK
A17	Eurotunnel Prevention of fire in the tunnel	<p>Eurotunnel safety arrangements to prevent fire in the tunnel</p> <p>Learning from experience</p>	<p>Check the effectiveness of the provisions relating to the new platform organization, put in place in November 2021</p> <p>Check the impact on the operation of reinstating pagodas to freight shuttles</p>	<p>Follow-up of the action plan agreed upon following the 2021 inspection (continuing work)</p> <p>Follow-up on open recommendations from previous inspections (continuing work)</p> <p>Review of Eurotunnel's</p>	<p>Continuous work</p> <p>Continuous work</p> <p>Quarterly updates from</p>

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			Following removal of CCAQ (platform catenary disconnection), review the control measures put in place by Eurotunnel	quarterly reports on its monitoring demonstrating that the control measures identified continue to control the risks as intended	Eurotunnel CTSA inspectors UK and FR
A18	Eurotunnel and RUs Monitoring of incidents	Safety management	Check that appropriate actions are taken and be able to adapt our supervision	Through WG1 or CTSA, reviewing SRIs and other information	Continuous work
A19	Eurotunnel and RUs Communications between Eurotunnel and the railway undertakings, with particular regard to managing and analysing incidents	Eurotunnel safety management system	Check there is effective communication, co-operation and learning from experience is shared	Monitoring through WG1 or CTSA	Continuous work
	CIVIL ENGINEERING ISSUES				
A20	Eurotunnel	Supervision and monitoring of the civil engineering of		Review of Eurotunnel's annual civil engineering monitoring reports sent to the	Annual monitoring by CETU

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		the Tunnel's infrastructure		CTSA	

B. SAFETY CERTIFICATION, SAFETY AUTHORISATION & AUTHORISATIONS TO PLACE INTO SERVICE

	Task	Objective	Methodology	Timing and resources
B1	Consideration of Eurotunnel applications for authorisation of infrastructure projects,	To ensure timely and robust consideration by IGC of any applications from Eurotunnel to place into service non-vehicle projects	Applications will be dealt with in accordance with the Treaty of Canterbury and Concession Agreement	Meetings as required
		To ensure timely and robust consideration by IGC of safety issues arising any applications from Eurotunnel for infrastructure projects in accordance with the quadripartite Concession Agreement	Applications will be dealt with in accordance with the relevant provisions of the quadripartite Concession Agreement.	Meetings as required
		Examine Eurotunnel's requests in conjunction with the NSAs under the IGC / EPSF / ORR cooperation agreement		Meetings as required
B2	Passenger shuttles mid-life	<p>Check that the change is safely managed by Eurotunnel, especially regarding fire detection and extinguishing system</p> <p>Bear in mind that the Halon gas derogation expires 31 December 2027</p>	Discussions at Eurotunnel-convened ad hoc working group meetings	<p>UK and FR delegates to attend meetings approx every four months</p> <p>First shuttle due autumn 2023 (including hybrid extinguishing system)</p> <p>Project completion 2028</p>

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B3	Replacement of Works Train locos (Schöma)	Check that the change is safely managed by Eurotunnel	Discussions at Eurotunnel-convened ad hoc working meetings	UK and FR delegates to attend meetings approx every 4 months New modules 2022 Target completion date 2024
B4	Breda replacement wagons project, 4 new shuttles (ELH WBN / Tatravagonka), 33 new wagons	To ensure timely and robust consideration by IGC of a “no objection” to place new vehicles or sub system into service in the Channel Tunnel Check that the change is safely managed by Eurotunnel Need to conform to Wagons TSI and CT-specific requirements	Discussions at Eurotunnel-convened ad hoc working meetings	Preliminary safety dossier submitted to IGC in Oct 2021 Final safety dossier submitted to IGC on 24 Mar 2022 Wagon introduction from May 2022. Planned end date for entire fleet 2023
	Future work			
B5	Inspection train Vectoor	Check that the change is safely managed by Eurotunnel		Target completion 2023
B6	AMC replacement	Ensure timely scrutiny for a non-objection by the IGC		Target completion 2024
B7	Single Deck Loader Replacement	Check that the change is safely managed by Eurotunnel		Target completion date 2027
B8	Rail operation modernisation	Check that the change is safely managed by Eurotunnel		Target completion date 2030

	Task	Objective	Methodology	Timing and resources
B9	ERTMS	Check that the change is safely managed by Eurotunnel		Target completion date 2030

C. DEVELOPMENT OF THE SAFETY REGULATORY FRAMEWORK

	Task	Objective	Lead	Advice	Methodology	Timing and resources
C1	Conclusion of IGC's review of unified safety rules	To maintain the reference document of Channel Tunnel vehicle authorisation rules	Secretariat	CTSA	Ensure reference document remains up to date and reflects any changes to national rules	Ongoing