

CCSA Working Group Summary Minutes

Working Group	Health & Safety
Date	17 th July
CCSA Lead	Despoina Tsimpridou
Chair	Sebastien Cochet (DNV)
Co-chairs	Jenny Sutcliffe (Phillips 66), John Entwistle (ENI)
# in attendance	38
Recording	https://vimeo.com/1103733831/821325a4f7
Summary Minutes	<p>Jenny Sutcliffe and John Entwistle</p> <p><i>“H&S areas of current interests and subgroup updates”</i></p> <ul style="list-style-type: none"> • Emergency Response priorities: Focus on both dense-phase and gaseous CO₂ releases. Need to address onshore/offshore differences (e.g., pipelines vs. offshore structures); non attended onshore sites <ul style="list-style-type: none"> ○ in terms of scope and whether the dense phase CO₂ is really the focus or whether it should cover gas of CO₂ as well ○ More synergy between capture facility, emergency response and pipelines as being onshore. • CO₂ Hazard: toxicity threshold, surge dispersion modelling, practical implementations (how to share findings, public training, and briefings) <p><i>Please see the meeting slides and recording for presentation content.</i></p> <p>Q&A</p> <ul style="list-style-type: none"> • Should emergency planning include unattended sites? <ul style="list-style-type: none"> ○ Yes - requires distinct strategies vs. attended sites. • How to address dispersion modelling gaps? <ul style="list-style-type: none"> ○ Support Project Skylark; use topography mapping for risk hotspots (e.g., valleys). Avoid duplicating JIP efforts. • How to align with ongoing work (e.g., EI guidelines)? <ul style="list-style-type: none"> ○ Focus on offshore emergency response (distinct from Skylark’s onshore work). Share project-specific procedures (e.g., alarm thresholds). • How to address toxicity threshold inconsistencies? <ul style="list-style-type: none"> ○ Feed into EI’s guideline updates; collaborate with HSE on new data. • Can human data (e.g., submarines/spacecraft) refine toxicity models? <ul style="list-style-type: none"> ○ Yes - HSE’s 10-page note (based on human data) will be shared.

	<p>Simon Gant, Health and Safety Executive (HSE) presented on: <i>“Current HSE workstream updates”</i></p> <ul style="list-style-type: none"> • UK HSE’s approach is widely used internationally, but human/animal data gaps exist. • Evidence review: High toxic exponent (n=8) validated via human data (not animal studies). • HSE (Simon Gant) and Shell (Chantal Smulders) are collaborating on new toxicology studies. <p>Ed Sullivan presented on: <i>“Project Skylark: Emergency Response”</i></p> <p><i>Please see the meeting slides and recording for presentation content.</i></p> <p>Q&A</p> <ul style="list-style-type: none"> • Why is CO2’s toxic exponent (n=8) an outlier? <ul style="list-style-type: none"> ○ Requires re-evaluation - joint meeting proposed to harmonise approaches. • Are offshore vehicles (e.g., helicopters) considered? <ul style="list-style-type: none"> ○ No - onshore focus. Offshore needs separate CCSA subgroup. <p>Rachel McCann and Kare Jeffrey, Health and Safety Executive (HSE) <i>“Updates on HSE consultation”</i></p> <ul style="list-style-type: none"> • HSE consultation open until Aug 13 on classifying CO2 as a "dangerous fluid" under Pipeline Safety Regs (PSR). • Onshore capture/storage unchanged <p>Richard Holliday, PPG, presented on: <i>“Cryogenic CO2 impacts”</i></p> <p><i>Please see the meeting slides and recording for presentation content.</i></p> <p>Q&A</p> <ul style="list-style-type: none"> • Should tests use I-beams (vs. tubes)? <ul style="list-style-type: none"> ○ Tubes are conservative; HSE bend tests (Oct 2025) will validate.
<p>Actions</p>	<ul style="list-style-type: none"> • The CCSA will consider organising CO2 toxicity expert meeting. • The CCSA will follow up on the Emergency response subgroup – may split onshore/offshore focus; reconvene with specific agendas.

	<ul style="list-style-type: none"> • Interested members to join Project Skylark webinar in September. • Interested members to reach out to Andy Brown (andy.brown@progressive-energy.com) for input on CO2 odorization. Deadline for feedback: Mid-August. • Interested members to reach out to DNV for JIP interest for supercritical CO2 tests. • Call for members' input on CCSA response to the HSE consultation. • Call for new co-chair for the H&S Working Group.
Other Comments	
Next Meeting Date	September 2025 (date TBC)
All working group materials can be found here	