


Property of Oil Spill Response 	Document Title COVID-19 Specific Measures or In-field Response	Document Number OSRL-TECH-PLA-00357	
		Revision	1




COVID-19 Specific Measures for In-field Response

REVISION HISTORY

Revision	Date	Description	Author	Reviewer	Approval
1 - LIVE	Q2 2020	Document live with regular updates shown in red reflecting the fluid nature of this Pandemic.	Nafisah Binte Mohd Raffid, Grace Jiang	Paul Revill, Ajibola Fashola, Shane Jacobs, Dave Rouse, Paul Foley.	Rob James

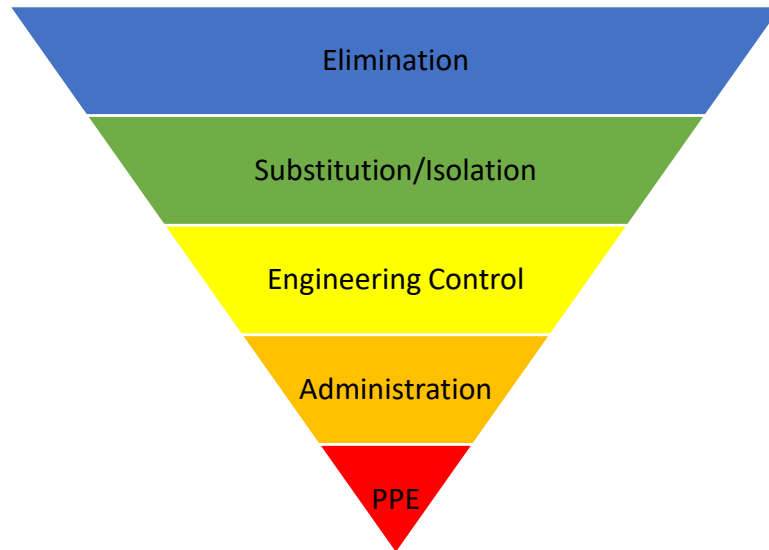
Version:	1	Date updated:	Wed 07 May 2020	Doc owner:	Nafisah, Grace Jiang
Page 1 of 10					

Property of Oil Spill Response 	Document Title COVID-19 Specific Measures or In-field Response	Document Number OSRL-TECH-PLA-00357	
		Revision	1

COVID-19 Specific Measures for In-field Response

This document is intended to aid the risk assessment process of reducing risk of infection in the event of an oil spill response operation during the COVID-19 pandemic, following the principles of hierarchy of control. The two discrete sections provide guidance on specific measures for response activities for OSRL responders and guidance for the mobilising party.

As with any response, safety of people remains paramount and OSRL will always seek assurance that the appropriate COVID-19 mitigation measures are in place before responders are mobilised.



- Virtual response and employing online collaboration platforms


- Satellite/UAV instead of personnel deployment, communication using online means e.g. virtual IMT
- Working with people who have self-isolated for 14 days with no reported symptoms of COVID-19 or with negative results from testing e.g. diagnostic tests, serologic (antibody) tests

- Increasing ventilation rates in work environment, installing physical barriers (may not be applicable in a response context)

- Physical and social distancing, staggered breaks, spilt teams, shift work, education, training, signages
- Self-assessment questionnaire, temperature checks, communication, isolation and evacuation plans
- Regular sanitization and disinfection


- Use of gloves, goggles, face shields, respiratory protective equipment (RPE) e.g. N95 and surgical masks

Version:	1	Date updated:	Wed 07 May 2020	Doc owner:	Nafisah, Grace Jiang
----------	---	---------------	-----------------	------------	----------------------

 Property of Oil Spill Response	Document Title COVID-19 Specific Measures or In-field Response	Document Number OSRL-TECH-PLA-00357	
		Revision	1


Guidance for OSRL Personnel			
Service Aspect	Response Activities in-country	Additional Measures/Guidance for COVID-19	Resources required
Mobilisation of personnel	Air travel (incl. helicopter transport to offshore facility)	<ul style="list-style-type: none"> - Before travelling, personnel are required to complete a self-assessment prior to attending site or embarking on fixed/rotary wing aircraft. Personnel who report or present with respiratory or flu symptoms are not permitted to travel. - Don N95/FFP2/FFP3 or KN95 respirator when in flight/transit always. <p>Avoid touching the face, mouth, eyes and nose. Regularly wash hands with clean water and soap or utilise alcohol-based sanitiser if soap is unavailable (especially before and after eating as well as after attending the toilet). Use alcohol wipes to clean any surface that requires any physical contact (e.g. flight tray).</p> <ul style="list-style-type: none"> - Personnel to maintain physical distancing of at least 1m wherever possible and practicable, as recommended by the World Health Organisation (WHO), see WHO guidance. Adhere to local government regulation on safe distancing, if distancing required is more than the WHO recommendation. - As much as possible, space out from other passengers on the aircraft e.g. do not sit beside; in front of or behind others to maintain physical distancing. - For transportation of personnel on a rotary wing aircraft (helicopter), avoid using shared equipment if they can be personally issued e.g. headsets. For PPE that must be shared (e.g. life vests, harnesses, etc), equipment are to be sanitised using alcohol wipes after each trip. 	<ul style="list-style-type: none"> - Thermometer - Respirator (N95/FFP2/FFP3 or KN95) based on RPE guidance. - Hand sanitiser - Alcohol Wipes - Disposable seat covers
	Road vehicle travel	<ul style="list-style-type: none"> - Personnel are to don a respirator (N95/FFP2/FFP3 or KN95) when in vehicle and ensure that the driver adheres to these measures as well. - Hire cars are preferred over taxis for road transport to minimise contact with the local community. Avoid the front and middle seat to maintain distancing from the driver. - For coach/bus transport, staggered seating should be implemented to maximise distancing, where possible bus should not exceed 50% capacity. Bus should be sanitised before and after each trip. First row behind the driver to remain empty. - Personnel to utilise disposable seat covers whenever possible in a transport vehicle. 	

Version:	1	Date updated:	Wed 07 May 2020	Doc owner:	Nafisah, Grace Jiang
----------	---	---------------	-----------------	------------	----------------------

 Property of Oil Spill Response	Document Title COVID-19 Specific Measures or In-field Response	Document Number OSRL-TECH-PLA-00357	
		Revision	1


	In accommodation	<ul style="list-style-type: none"> - Personnel to stay in accommodation as much as possible. If there is an urgent need to go out, wear a respirator (N95/FFP2/FFP3 or KN95) and take a hand sanitiser. - Purchasing of food is advised to be ordered from room service/delivery to minimise contact. If personnel are leaving the accommodation to purchase food, do not dine-in and opt for take-away. - Do not utilise other facilities in the accommodation area such as pools and gym to reduce the risk of contact with COVID-19 carriers. - Conduct temperature checks and self-assessment to monitor the state of health and inform in-country lead if feeling unwell or when slight symptoms are present. 	<ul style="list-style-type: none"> - Thermometer - Respirator (N95/FFP2/FFP3 or KN95) based on RPE guidance. - Hand sanitiser - Alcohol Wipes
In-country response	General measures at all response sites (in-country)	<ul style="list-style-type: none"> - Personnel are to constantly conduct self-assessments and are required to report any changes in health or well-being at any time whilst on work site. If internet access is unavailable, personnel are to record their self-assessment/temperature results in individual log book and are to immediately inform in-country lead if feeling unwell or when symptoms are present. - All personnel are required to undertake temperature checks at the beginning and end of shift. Personnel will be denied entry to work site, if temperature goes above 38°C and personnel are to undergo testing or 14-day quarantine before reporting back to work. <ul style="list-style-type: none"> o Due to the possibility of higher-than-normal core temperatures after strenuous work from response operations, responders should be allowed to cool down before temperature taking to prevent false positive temperature readings. - Personnel are to maintain physical distancing according to local regulation wherever possible and practicable, with exceptions if the task cannot be done safely given the distancing. Safety and Operational briefing to be conducted with people at least 1m apart, with respirator (N95/FFP2/FFP3 or KN95) to be worn as a minimum. - Task specific method statements would be used to alter deployment methods wherever possible and practicable, adhering to the physical distancing measures. However, if there are specific tasks that cannot be altered to comply with the physical distancing measures, other controls to minimise the risk of contamination would need to be considered e.g. additional PPE (Respirator (N95/FFP2/FFP3 or KN95) and face shield), based on risk assessment. - Don appropriate PPE based on risk assessment and do not share PPE and personal items such as water bottles. 	<ul style="list-style-type: none"> - Thermometer - Respirator (N95/FFP2/FFP3 or KN95) based on RPE guidance. - Hand sanitiser - Alcohol Wipes

Version:	1	Date updated:	Wed 07 May 2020	Doc owner:	Nafisah, Grace Jiang
----------	---	---------------	-----------------	------------	----------------------

 Property of Oil Spill Response	Document Title COVID-19 Specific Measures or In-field Response	Document Number OSRL-TECH-PLA-00357	
		Revision	1


	<ul style="list-style-type: none"> - Regularly wash/sanitise hands after removal of PPE. Avoid touching the face, mouth, eyes and nose. Regularly wash hands with clean water and soap or utilise alcohol-based sanitiser if soap is unavailable (especially before and after eating as well as after using the toilet). - Staggered rest breaks and mealtimes to minimise contact with others, along with facilities to accommodate breaks whilst maintaining physical distancing. - Personnel are to communicate via VHF radio when in-field and avoid in-person communication as much as possible. Avoid passing items (e.g. thumb drives/discs/papers/business cards) and opt for electronic data transfers wherever possible. If unable to do so, personnel are to sanitise hands after sharing/passing items. - Ensure that proper waste management is carried out at all sites, as items such as used respirators and masks may be potentially contaminated if someone is asymptomatic or pre-symptomatic. 	
IMT-based technical advice (within Mobilising Party's IMT)	<ul style="list-style-type: none"> - OSRL personnel to adhere to mobilising party's procedures for infectious disease controls such as temperature checks before entering the site. If this is not implemented, OSRL personnel are to seek evidence of self-assessment questionnaires or declarations from mobilising party. If these are not available, OSRL personnel are to check with Duty Manager for advice before entering site. - Possibility of using teleconferencing instead of physical meetings during response planning. 	<ul style="list-style-type: none"> - Thermometer - Respirator (N95/FFP2/FFP3 or KN95) based on RPE guidance. - Hand sanitiser - Alcohol Wipes
Aerial Surveillance Operation	<ul style="list-style-type: none"> - Personnel involvement in aerial surveillance operation can be substituted using the following alternatives: <ul style="list-style-type: none"> o Spill Identification: Engagement with MDA or mobilising party's preferred supplier to provide satellite imagery o Spill Verification/Monitoring: Deployment of UAV or remotely captured images - If the above options are unavailable or unsuitable, the aerial surveillance operation will be conducted with minimum number of personnel onboard to be advised by aviation expert. In this instance, the general measures at all response sites stated above are to be adhered to. - Personnel are to avoid using shared PPE if it has already been issued to them (e.g. headsets). However, PPE that must be shared (e.g. life vests, harnesses, etc) are to be sanitised after use. 	<ul style="list-style-type: none"> - Thermometer - Respirator (N95/FFP2/FFP3 or KN95) based on RPE guidance. - Hand sanitiser - Alcohol Wipes - Aerial Surveillance Grab bags (which consists of headsets)

Version:	1	Date updated:	Wed 07 May 2020	Doc owner:	Nafisah, Grace Jiang
----------	---	---------------	-----------------	------------	----------------------

 Property of Oil Spill Response	Document Title COVID-19 Specific Measures or In-field Response	Document Number OSRL-TECH-PLA-00357	
		Revision	1


Shoreline/Inland Operations (Protection and Clean-up)	<ul style="list-style-type: none"> - Contact surfaces in the aircraft to be cleaned and sanitised regularly and disinfected after each rotation of personnel or crew change. 	<ul style="list-style-type: none"> - Temperature check and health declaration form - Thermometer (ideally non-contact type) - Respirator (N95/FFP2/FFP3 or KN95) based on RPE guidance. - Hand sanitiser - Alcohol Wipes - Full PPE includes Tyvek suit, respirator, safety goggles, face shield, chemical gloves, safety shoes, safety boots, safety helmet, ear protection, coveralls, lifejacket, as appropriate. - <i>*Note: Hot weather procedure is to be followed, including the use of WBGT, frequent breaks and temperature monitoring of personnel.</i> 										
	<p>In additional to the general measures at all response sites,</p> <ul style="list-style-type: none"> - Shoreline operations should include dedicated staff to manage controls and sanitation measures and a medical professional on-site, whenever possible. - Personnel on-site are limited to the core crew (OSRL and required number of support personnel). - Beach Master to ensure that there is a temperature-taking station during site set-up (recommended to have it at the entrance of the site) and maintain a record for contact tracing and personnel movement. - Minimise contact with local communities <ul style="list-style-type: none"> o Restrict public access to response sites with security measures, barriers, etc. o Put up notices onsite to inform public e.g. official media statement, contact number of Public Liaison Officer - Ensure that a quarantine area is also set-up for personnel who have elevated temperatures after conducting temperature checks. - Clear emergency protocol for dealing with, for example, injury or electrical storm breaks on-site without impacting physical distancing. - Sanitation facilities should be provided with handwashing stations that are preferably hands-free (pedal, knee or elbow operated). <table border="1" data-bbox="857 1078 1406 1343"> <thead> <tr> <th>No. of personnel on site</th> <th>No. of hand washing stations to be on-site*</th> </tr> </thead> <tbody> <tr> <td>1-5</td> <td>2</td> </tr> <tr> <td>6-25</td> <td>4</td> </tr> <tr> <td>26-50</td> <td>6</td> </tr> <tr> <td>51-75</td> <td>8</td> </tr> <tr> <td>76-100</td> <td>10</td> </tr> </tbody> </table> <p><i>*Numbers stated are doubled from the minimum number recommended by UK HSE</i></p>		No. of personnel on site	No. of hand washing stations to be on-site*	1-5	2	6-25	4	26-50	6	51-75	8
No. of personnel on site	No. of hand washing stations to be on-site*											
1-5	2											
6-25	4											
26-50	6											
51-75	8											
76-100	10											

Version:	1	Date updated:	Wed 07 May 2020	Doc owner:	Nafisah, Grace Jiang
----------	---	---------------	-----------------	------------	----------------------

 Property of Oil Spill Response	Document Title COVID-19 Specific Measures or In-field Response	Document Number OSRL-TECH-PLA-00357	
		Revision	1


Shoreline Clean-Up Assessment Techniques (SCAT)	<ul style="list-style-type: none"> - Reduce physical involvement in SCAT operations by using UAV surveys, if possible. - Limit the number of key stakeholders physically involved in the operation (e.g. 1 OSRL, 1 stakeholder), with physical distancing measures being adhered to. Other key stakeholders can verify the survey results through online means or telecommunication. - Avoid passing items (e.g. thumb drives/discs/papers) and opt for electronic data transfers wherever possible e.g. ArcGIS App on mobile, SCAT tablet. If unable to do so, personnel are to sanitise hands after sharing/passing items. 	<ul style="list-style-type: none"> - Temperature check and health declaration form - Thermometer - Respirator (N95/FFP2/FFP3 or KN95) based on RPE guidance.
Offshore vessel-based Operation	<p>In additional to the general measures at all response sites,</p> <ul style="list-style-type: none"> - As part of the OSRL's VOO selection process, ensure the following: <ul style="list-style-type: none"> o Vessel Master has control measures to ensure vessel crew is healthy (e.g. record of health declaration and temperature monitoring) o Vessel has a schedule for sanitisation and disinfection of all working and living areas. o All working and living areas to be disinfected after each rotation of personnel or crew change. o Vessel has provision to accommodate a designated quarantine area/cabin or spare bunk to isolate a suspected COVID-19 case. - Offshore IC to conduct temperature checks and maintain a record of all personnel onboard including vessel crew. - During the duration on the vessel, avoid all large group social interactions and stay in individual cabin outside of working hours. - Crew change during the duration of the operation should not be allowed, unless approved by management after careful considerations and risk assessments. - Consideration during vessel selection for the ability to remain offshore on station overnight to minimise infection risk or coming ashore daily (subject to full risk assessment) 	<ul style="list-style-type: none"> - Hand sanitiser - Alcohol Wipes - Full PPE includes Tyvek suit, respirator, safety goggles, face shield, chemical gloves, safety shoes, safety boots, safety helmet, ear protection, coveralls, lifejacket, as appropriate. <p>*Note: Hot weather procedure is to be followed, including the use of WBGT, frequent breaks and temperature monitoring of personnel.</p>
Aerial Dispersant Operation	<ul style="list-style-type: none"> - Limit the number of personnel on board the aircraft. Note that the B727 requires at least one OSRL personnel onboard to act as task specialist to conduct dispersant spraying. - The C-130 aircrew are trained to conduct dispersant loading but would require ground support for extended operations. The dispersant loading team on the ground are to observe the general measures in this document. 	<ul style="list-style-type: none"> - Temperature check and health declaration form - Thermometer

Version:	1	Date updated:	Wed 07 May 2020	Doc owner:	Nafisah, Grace Jiang
----------	---	---------------	-----------------	------------	----------------------

 Property of Oil Spill Response	Document Title COVID-19 Specific Measures or In-field Response	Document Number OSRL-TECH-PLA-00357	
		Revision	1


		<p>Use of PPE during dispersant loading based on task specific risk assessment. If all the aircrew working together have been tested and there is no risk of COVID-19 transmission, face masks may be used.</p> <ul style="list-style-type: none"> - Dispersant aircraft aircrew are to observe the WHO guidance on Operational considerations for managing COVID-19 cases or outbreak in aviation in additional to OSRL guidelines. 	<ul style="list-style-type: none"> - Face mask/Respirator (N95/FFP2/FFP3 or KN95) based on RPE guidance. - Hand sanitiser - Alcohol Wipes - Full PPE includes Tyvek suit, respirator, safety goggles, face shield, chemical gloves, safety shoes, safety boots, safety helmet, ear protection, coveralls, lifejacket, as appropriate.
Oiled Wildlife Response (OWR)		<ul style="list-style-type: none"> - In general, wildlife response operations will need to comply with all local laws and guidelines regarding health and physical distancing. IMT-based OWR advisor to adhere to the same additional measures/guidance as stated above in the mobilising party's IMT section. Any field or facility operations should ensure general safety measures can be met as well as establish site-specific and task-specific measures (see above Shoreline/Inland operations guidance). - Site and/or facility layout should be designed to optimise physical space between the various response and rehabilitation activities and to ensure personnel can maintain physical distancing wherever possible. Given it may not be possible to perform some activities (e.g. animal intake and animal cleaning) safely and effectively while maintaining distancing, additional controls should be put in place such as additional PPE (e.g. Respirator (N95/FFP2/FFP3 or KN95) and face shields). 	<p>*Note: Hot weather procedure is to be followed, including the use of WBGT, frequent breaks and temperature monitoring of personnel.</p>

Version:	1	Date updated:	Wed 07 May 2020	Doc owner:	Nafisah, Grace Jiang
----------	---	---------------	-----------------	------------	----------------------

 Property of Oil Spill Response	Document Title COVID-19 Specific Measures or In-field Response	Document Number OSRL-TECH-PLA-00357	
		Revision	1

Guidance for Mobilising Party		
Recommended measures	Details	Resources required
COVID-19 Self-Assessment Questionnaire	<ul style="list-style-type: none"> - All personnel involved in the oil spill response are required to complete a self-assessment prior to travel. - Questionnaire should include the following: <ul style="list-style-type: none"> o A declaration that they do have not symptoms of COVID-19 o Overseas travel history in the last 14 days o Any close contact of known cases or people who has been placed under quarantine in the last 14 days - Personnel who report experiencing any respiratory or flu symptoms or are placed under quarantine are not allowed to travel to site. 	<ul style="list-style-type: none"> - Preferably an online questionnaire platform to prevent physical handling of documents.
Temperature checks at all work sites	<ul style="list-style-type: none"> - Temperature screening or checks for all personnel preferably twice a day, during check-in and check-out of any work site. This includes Incident Command Centre where the Incident Management Team (IMT) operate, in-field response sites and any point of disembarkation to onshore/offshore facilities. - Personnel with temperatures above 38°C should undergo testing at healthcare facilities (possibility of using COVID-19 rapid test kit) or 14-day quarantine, in-line with WHO guidance before reporting back to work. - Implement physical distancing measures and staggered breaks (adhere to the government guidelines on physical distancing e.g. maintain 1m away apart) 	<ul style="list-style-type: none"> - Temperature screens or hand-held thermometers at mobilising party's facilities and worksites. - Personnel thermometers to be used if hand-held thermometers are unavailable. - COVID-19 Rapid Test kits are available in some countries to provide results in 15 minutes.
Air travel (incl. helicopter transport to offshore facility)	<ul style="list-style-type: none"> - If charter aircrafts are used, to ensure spacing of personnel in aircraft. - All personnel to wear respirator (N95/FFP2/FFP3 or KN95) inflight and during transit. - For rotary wing flights, ensure shared PPE are sanitized after each transit. Interior cabin and contact surfaces to be sanitised regularly. 	<ul style="list-style-type: none"> - Provision of respirator (N95/FFP2/FFP3 or KN95), hand sanitisers, surface disinfectants, etc. (OSRL can provide enough face masks and hand sanitisers for the initial rotation of OSRL responders but may need the mobilising party support for the subsequent rotations.)
Road vehicle travel	<ul style="list-style-type: none"> - To ensure all road vehicles hired for business travel are sanitised regularly or prior to use with appropriate spacing between passengers. 	

Version:	1	Date updated:	Wed 07 May 2020	Doc owner:	Nafisah, Grace Jiang
----------	---	---------------	-----------------	------------	----------------------

Property of Oil Spill Response 	Document Title COVID-19 Specific Measures or In-field Response	Document Number OSRL-TECH-PLA-00357	
		Revision	1

Guidance for Mobilising Party		
Recommended measures	Details	Resources required
IMT	<ul style="list-style-type: none"> - Dedicated COVID-19 focal point to sit within the IMT in charge of managing the control measures to ensure health of all personnel. - Information for management, supervisory staff and medical staff on how to manage suspected cases of COVID-19, including isolation/quarantine measures, sanitation protocols, physical distancing measures and evacuation protocols. 	<ul style="list-style-type: none"> - Provision of respirator (N95/FFP2/FFP3 or KN95), hand sanitisers, surface disinfectants, etc. (OSRL can provide enough face masks and hand sanitisers for the initial rotation of OSRL responders but may need the mobilising party support for the subsequent rotations.)
In-field operations	<ul style="list-style-type: none"> - Daily temperature checks before and after each shift for field personnel. - To implement infection control measures on site e.g. maintaining safe distance from other personnel, wearing of RPE, hand washing, staggered breaks and physical separation of teams and shift change over. - To include these controls in the health and safety briefing before each work shift and put up signage at entrance of site. - Frequent reminders to avoid touching the face with unwashed and gloved hands and to sanitise hands and workplaces. 	

References

<https://www.appea.com.au/wp-content/uploads/2020/04/COVID-19-upstream-offshore-protocol-framework-6-April-2020.pdf>



Disease Management
Plan - marine oil spill

World Health Organisation's Coronavirus disease (COVID-19) advice for the public: <https://www.who.int/emergencies/diseases/novel-coronavirus-2019/advice-for-public>

Acknowledgements: OSRL are grateful for the contribution and technical review of this document by our colleagues at Shell.

Version:	1	Date updated:	Wed 07 May 2020	Doc owner:	Nafisah, Grace Jiang
Page 10 of 10					