

*PART691 Fixed-wing commercial air transport  
Additional Compliance Criteria & Guidance Material*

Shell Group Requirements for Aircraft Operations (SGRAO) Issue 02



## Document Revision Information

Version	Date	Amendment
1.0	13/05/2024	Initial Release

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## Introduction

SGRAO PART-691 is part of the SGRAO suite of documents and must be read in conjunction with:

### **SGRAO Implementation Guide**

#### **IOGP Report 691 Version 1.0 for “Fixed-wing commercial air transport”**

This document provides additional guidance and expectations on how the IOGP Report 691 Version 1.0 for “Fixed-wing commercial air transport” (RP691) must be implemented by the Contracted Aircraft operators and Shell Businesses.

SGRAO PART-691 covers the operation of Fixed-wing commercial air transport (FWCAT) operations and is comprised of five modules:

1. Safety Management Systems,
2. Aircraft Operations,
3. Support Operations,
4. Engineering,
5. Aircraft and Equipment.

These modules are further divided into sections covering the main activities associated with the delivery of aviation services and within each section are technical elements. Each chapter in IOGP RP691 is presented with a Title, Purpose, Expectations, Processes and Practices and Guidance documents. A ‘responsible party’ for each element is identified either as ‘Company,’ meaning the entity which engages the services of an FW CAT operator, or ‘Contractor’ which may be the aircraft operator, Aircraft Maintenance Organisation, or subcontracted parties (e.g., a provider of ground support services such as passenger check-in and processing).

List of Additional Compliance Criteria

Report	Chap	ACC	Description	ACC Threshold
691-2	13B	13ACC.1	Medical Certification	Shell Requirements to meet 691-2, Section 13, MR13B, Medical Certification, are aligned with ICAO, these are: <ul style="list-style-type: none"> <li>Prohibit the use of pilots on Commercial Air Transport (CAT) Aircraft operations who have reached 65 years of age.</li> <li>Allow pilots that have attained the age of 60 years or have an operational multi-pilot limitation on their medical certificate, only to operate an aircraft with another pilot provided, when the other pilot is fully qualified and not also subject to an operational multi-pilot limitation; and the other pilot has not attained the age of 60 years.</li> </ul>
691-2	13C.1	13ACC.2	Medical Certification	Shell requirement for 691-2, Section 13, MR13C.1: All pilots flying for the Company when over the age of 60, medicals include electrocardiography at intervals not exceeding six months.
691-2	18C.1	18ACC.1	Flight Crew Fatigue Management - Flight Duty Times and Rest Periods	Shell requirements to meet 691-2, Section 18, MR18C.1, Flight Duty Periods (FDP), are maximum 14 Hour Flight Duty in a single Day, 11 for a Single Pilot, 84 hours in any 7 consecutive day period and 210 hours in any 28 consecutive day period.
691-2	18C.3	18ACC.2	Flight Crew Fatigue Management – Flight Duty Times and Rest Periods	Shell requirements to meet 691-2, Section 18, MR18C.3, Flight Crew <ul style="list-style-type: none"> <li>Do not work more than seven consecutive days between days off.</li> <li>Have no less than two consecutive days off in 14 days.</li> <li>Have at least eight days off in each consecutive five-week period averaged over three such periods.</li> </ul>
691-5	2B	2ACC.1	Certification Standard	Shell requirements to meet 691-5, Section 2, 2B, are to only use Aircraft types assessed as acceptable by Shell Aircraft and agreed with the relevant Shell Technical Authority - Air Transport (TA/1).
691-5	9B	9ACC.1	Cockpit Voice and Flight Data Recorders	CVR (Cockpit Voice Recorder) and FDR (Flight Data Recorder) or a Combined Cockpit Voice and Flight Data Recorder (CVFDR) are required.

**Table 2; Additional Compliance Criteria**

## Guidance Material

Guidance Material (GM) is non-binding explanatory and interpretation material issued by Shell Aircraft which helps to illustrate the meaning of a requirement or specification in the IOGP R691 or the ACC. It contains information, including examples, historic context and considerations to assist the user in the interpretation and application.

### *IOGP R691 Bow-Tie Set*

In addition to the GM a dedicated Bow-Tie Set is available, which has been developed by Shell Aircraft to provide understanding on how the barriers should work together. The set is based on the Heli-Offshore performance model and the IOGP R691 barriers.

### *Definitions & Acronyms*

For definitions and acronyms used in the IOGP R690-series, IOGP R69X offers comprehensive explanation.

## Variations

Variation means minor deviation to the mandatory requirements as defined in IOGP R690-series. Consult the SGRAO Implementation guide for more information.

TA2 variations are indicated in the split boxes in the Guidance section. These variations are locally managed and registered.

### *List of TA1 Variations*

Report	Chap	Description	Variation Details
691-1	11	Continuous improvement - Assurance	The relevant Shell Technical Authority - Air Transport (TA/1), agrees 691-1, Section 11, 11C4.1 Relevant Contractors with the operator.
691-1	14	Line Operations Safety Audit	The relevant Shell Technical Authority - Air Transport (TA/1), can vary requirement 691-1, Section 14, MR14B, Implementation of a LOSA Program for Limited Exposure contracts if at the location no LOSA compliant operator is available.
691-1	14	Line Operations Safety Audit	The relevant Shell Technical Authority - Air Transport (TA/0), can apply to the TA/0 for an Exception when LOSA programs for aero planes with a MOPSC of 19 or less are not required.
691-2	7	Airborne Collision Avoidance Systems	The relevant Shell Technical Authority - Air Transport (TA/1), can vary requirement 691-2, Section 7, MR 7C.3. For Full details see 691-5, Aircraft and Equipment, Section 8, Aircraft and Equipment, Airborne Collision Avoidance Systems.
691-2	8	Aircraft Flight Data Monitoring	The relevant Shell Technical Authority - Air Transport (TA/1), is to review and agree, requirement 691-2, Section, 8, MR8C.1, Scope of Coverage, Event Sets and Documented Thresholds and the review details, are to be recorded.
691-2	11	Flight Crew - Experience and Qualification	The relevant Shell Technical Authority - Air Transport (TA/1) can vary requirement 691-2, Section 11C3, Table 1, where a clear operational need can be demonstrated.

Report	Chap	Description	Variation Details
691-2	13	Medical Certification	The relevant Shell Technical Authority – Air Transport, (TA/1) can vary requirement 691-2, Section, 13, MR13B, Medical Certification, when there are locally allowed variances to the ICAO requirements, which Shell follows.
691-2	16	Composition of Flight Crew	The relevant Shell Technical Authority – Air Transport, (TA/1) can vary requirement MR16C. 1 Single Pilot cargo operations.
691-2	18	Flight Crew Fatigue Management - Flight Duty Times and Rest Periods	The relevant Shell Technical Authority - Air Transport, (TA/1) can vary 691-2, Section 18, 18ACC.1, Flight Duty Period (FDP), when a Fatigue Risk Management System (FRMS) is in place.
691-2	18	Flight Crew Fatigue Management - Flight Duty Times and Rest Periods	The relevant Shell Technical Authority - Air Transport, (TA/1) can vary 691-2, Section 18, 18ACC.2, for Flight Crew working a customized work schedule (14 days on/14 days off etc.) that have a (FRMS) system approved by the National Aviation Authority (NAA), which may allow deviation from the days off requirements.
691-2	40	Recency Training Flights	The relevant Shell Technical Authority, (TA/1) can accept a risk assessment with appropriate mitigation presented by the operator to meet the requirements in, 691-2, Section 40, MR40C.1, Note 6.
691-2	41	Flight Crew Training – Recurrent Training and Maintenance Check Flights	The relevant Shell Technical Authority - Air Transport, (TA/1), can vary Section 41C.1, such that the operator training program covers all major emergencies of the contracted aircraft type in a defined multi-year rolling program.
691-2	44	Use of Flight Simulation Training Devices – General	The Shell Technical Authority - Air Transport, (TA/1), can agree to vary requirement 691-2, Section 44, MR44C.3, Simulator Specification, and the use of a simulator of the same type and series being flown with a lower certification/specification.
691-2	45	Introduction of New Aircraft Types	The relevant Shell Technical Authority – Air Transport, (TA/1), in agreement with TA/0, agrees to the introduction of any new type, to meet, 691-2, Section 45, 45C.1.
691-4	4	Continuing Airworthiness - Maintenance Data	The relevant Shell Technical Authority - Air Transport, (TA/1), can require specific, company requested, Service Bulletins and Airworthiness Directives to be complied with. to meet 691-4, Section 4, MR4B, Continuing Airworthiness - Maintenance Data.
691-4	11	Maintenance Management - Maintenance Records.	The relevant Shell Technical Authority – Air Transport, (TA/1), may vary 691-4, Section 11, MR11C.4, Staged Worksheets (SWS), for limited exposure contracts.
691-4	15	Maintenance Observation Programme	The relevant Shell Technical Authority – Air Transport, (TA/1), may vary requirement 691-4, Section 15, MR15B, Maintenance Observation Programme (MOP), for limited exposure contracts.
691-4	19	Maintenance Facilities - General	The relevant Shell Technical Authority (TA/1) may vary requirement 691-4, Section 19, MR19C.2, Component Workshops, for limited exposure contracts.

Report	Chap	Description	Variation Details
691-4	21	Aircraft Components/Material Management – Equipment and Tools	The relevant Shell Technical Authority – Air Transport, (TA/1), may vary 691-4, Section 21, MR21C.1, Company Owned Tooling, for limited exposure contracts, operations in remote locations, and small Aircraft operators.
691-4	24	Maintenance - Aircraft Fuel Checks	The relevant Shell Technical Authority - Air Transport (TA/1), can vary 691-4, Section 24, 24.C.2, Daily Fuel Samples, for limited exposure contracts. To meet this alleviation, Fuel sample requirements are in place such that a comprehensive sample process is in place for the day of every Shell Flight.
691-4	25	Maintenance Personnel General Requirements – Fatigue Prevention	The relevant Shell Technical Authority – Air Transport (TA/1), can vary requirement 691-4, Section 25, MR25C.3, Days Off.
691-5	2	Certification	The relevant Shell Technical Authority - Air Transport (TA/1), and contracting Business Leader, can apply to the TA/0 for an Exception to use an aircraft built prior to 2000 for use in CAT.
691-5	8	Airborne Collision Avoidance Systems	The relevant Shell Technical Authority – Air Transport, (TA/1) may vary requirement 691-5, Section 8, MR8C.2, where operations are in low density air traffic areas and an agreed Risk Assessment is in place, for limited exposure contracts.
691-5	9	Flight Data Monitoring (FDM)	The relevant Shell Technical Authority – Air Transport, (TA/1) may vary requirement 691-5, Section 9, MR9B for limited exposure contracts.
691-5	16	Cockpit Camera	The relevant Shell Technical Authority – Air Transport, (TA/1) may vary requirement 691-5, Section 16, MR16B, Cockpit Camera for limited exposure contracts where no other compliant aircraft is available.

**Table 3; List of TA1 variations**



<b>R691-1</b>	<b>Safety Management Systems</b>
<b>1</b>	<b>Safety Management Systems - General</b>
<b>MR</b>	<b>1B, 1C.1, 1C.2, 1C.3</b>
<b>Guidance Material</b>	
<b>1B</b>	<p>See 691-1B - An effective Safety Management System (SMS), appropriate to the size and complexity of the organisation is in place and for smaller organizations. The following is guidance on how SMS can be developed to meet this requirement:  <a href="https://www.casa.gov.au/search-centre/safety-kits/resource-kit-develop-your-safety-management-system">https://www.casa.gov.au/search-centre/safety-kits/resource-kit-develop-your-safety-management-system</a>  <a href="https://www.casa.gov.au/search-centre/safety-kits/resource-kit-develop-your-safety-management-system#">https://www.casa.gov.au/search-centre/safety-kits/resource-kit-develop-your-safety-management-system#</a>  <a href="https://vast.aero/Safety%20Toolbox/SMS/2009%20SMS%20Toolkit_ed2_Final.pdf">https://vast.aero/Safety Toolbox/SMS/2009 SMS Toolkit ed2 Final.pdf</a>  <a href="https://www.slideshare.net/IHSTFAA/ihst-sms-for-small-Aircraft-fleets">https://www.slideshare.net/IHSTFAA/ihst-sms-for-small-Aircraft-fleets</a>                      ALARP definition – see 7C.5.</p>
<b>1C.1</b>	No Guidance.
<b>1C.2</b>	<p>The SMS interlinks all the elements listed in IOGP Report 691-1 – Safety Management, Figures 1, Overall MS and 2, Hazard Management, visualize this:</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Figure 1 - Overall SMS</p> </div> <div style="text-align: center;"> <p>Figure 2 - Hazard Management</p> </div> </div>
<b>1C.3</b>	An interface process can be controlled by contract, or separate documents and should only be applicable to sub-contractors that could be assessed as carrying risk on behalf of the company.
<b>1ACC.1</b>	None
<b>1VAR.1</b>	None

<b>R691-1</b>	<b>Safety Management Systems</b>
<b>2</b>	<b>Management Commitment and Leadership</b>
<b>MR</b>	<b>2B, 2C.1, 2C.2, 2C.3, 2C.4</b>
<b>Guidance Material</b>	
<b>2B</b>	The term “leaders” includes all management and supervisory positions in the organisation, including the chief executive and senior management team, middle management regional and base managers.
<b>2C.1</b>	Part of knowing the safety risks is engaging with subcontractor management, local communities, and authorities. In addition, the operator should engage with Industry Associations, such as OEUK Aviation Technical Group (ATG), European Business Aviation Association (EBAA), National Business Aviation Association (NBAA), International Airborne Geophysics Safety Association (IAGSA) etc.
<b>2C.2</b>	A key element of leadership commitment is visible leadership, commonly demonstrated by leading, for example, workplace and site visits. These should allow leaders to: <ul style="list-style-type: none"> <li>• Get to know people working at the workplace and demonstrate care.</li> <li>• Talk about work activities that matter to people and embrace feedback.</li> <li>• Have a focus and purpose when engaging people; and, Focus on the behaviour of people during work site visits and recognise the right behaviours, including challenging business decisions</li> </ul>
<b>2C.3</b>	Leaders should engage in conversations with personnel and asking authentic questions lets the workforce see the genuine interest and commitment of their leaders and allows the leaders to gain a better insight into their HSSE exposure.
<b>2C.4</b>	Leaders should strive to ensure that they receive regular feedback, and this means fostering an environment where feedback is actively sought on HSSE performance through open and honest conversations. It should be easier for people to provide feedback on a leader’s HSSE behaviour if their leader has already established a feedback culture. Just Culture tools such as Baines Simmons FAIR Tool are used.
<b>2ACC.1</b>	None.
<b>2VAR.1</b>	None.

<b>R691-1</b>	<b>Safety Management Systems</b>	
<b>3</b>	<b>Safety Accountabilities and Responsibilities</b>	
<b>MR</b>	<b>3B, 3C.1, 3C.2, 3C.3, 3C.4, 3C.5</b>	
<b>Guidance Material</b>		
<b>3B</b>	No Guidance.	
<b>3C.1</b>	No Guidance.	
<b>3C.2</b>	The Accountable Executive should have full authority to ensure adequate staffing levels to provide the organisation with the capacity and capability to deliver all activities in line with the Policy, Objectives and Management Review	
<b>3C.3</b>	<p>The Safety Manager should be a full-time employee although in a small non-complex organisation, they may also be the Compliance Monitoring/Quality Manager, but in such cases, there should be independent compliance monitoring of the SMS. The Safety Manager should be given an appropriate status in the organisation to provide the necessary degree of authority when dealing with safety matters. They should:</p> <ul style="list-style-type: none"> <li>• Have defined competence requirements, sufficient resources, and safety structures to manage the implementation and maintenance of the SMS.</li> <li>• Act as the focal point and is responsible for the development, administration, maintenance, and promotion of the SMS; and,</li> <li>• Have direct access to the Accountable Executive.</li> </ul>	
<b>3C.4</b>	Leaders should establish and maintain governance over the implementation of the SMS, by, where possible, defining the levels of management with authority to make decisions regarding safety risk tolerability, and they should ensure that the relevant department senior leader is involved with line leadership in decisions affecting safety management and performance.	
<b>3C.5</b>	No Guidance.	The relevant Shell Technical Authority - Air Transport (TA/1) is informed of the requirements in 691-2, 3C.5, Changes in Key Personnel. <b><u>This requirement is managed and recorded locally.</u></b>
<b>3ACC.1</b>	None.	
<b>3VAR.1</b>	None.	

<b>R691-1</b>	<b>Safety Management Systems</b>	
<b>4</b>	<b>Key Safety Personnel</b>	
<b>MR</b>	<b>4B, 4C.1, 4C.2</b>	
<b>Guidance Material</b>		
<b>4B</b>	No Guidance.	
<b>4C.1</b>	No Guidance.	
<b>4C.2</b>	No Guidance.	
<b>4ACC.1</b>	None.	
<b>4VAR.1</b>	None.	

<b>R691-1</b>	<b>Safety Management Systems</b>
<b>5</b>	<b>Emergency Response Planning</b>
<b>MR</b>	<b>5B, 5C.1, 5C.2, 5C.3, 5C.3, 5C.4, 5C.5, 5C.6, 5C.7</b>
<b>Guidance Material</b>	
<b>5B</b>	No Guidance.
<b>5C.1</b>	<p>The ERP should contain:</p> <ul style="list-style-type: none"> <li>• Details of roles and responsibilities, including co-coordinators, Duty Managers etc.</li> <li>• List of Emergency Contacts, including Shell contract requirements.</li> <li>• <u>Credible Scenarios</u> are defined as: <ul style="list-style-type: none"> <li>○ A generalized detailed description of a hypothetical but credible incident. This is the result of an imagined sequence of events that could plausibly lead to an Incident requiring mitigation by emergency response.</li> </ul> </li> </ul> <p>5C.1 - The bridging process in this section, should meet the policy requirements in 691-1, 5C.7.</p>
<b>5C.2</b>	No Guidance
<b>5C.3</b>	The Emergency Response Organisation should be able to demonstrate the required personnel levels to response to any Credible Emergency Scenarios.
<b>5C.4</b>	No Guidance.
<b>5C.5</b>	No Guidance.
<b>5C.6</b>	No Guidance.
<b>5C.7</b>	<p>Contacts and contact requirements for local Shell Business Unit responsible managers, these should be defined in the contract, or similar formal document.</p> <p>The bridging process can be a contract, side letter, or a formal bridging document.</p> <p>5C.7 - The bridging process in this section should cover the policy requirements in 691-1, 5C.1.</p>
<b>5ACC.1</b>	None.
<b>5VAR.1</b>	None.

<b>R691-1</b>	<b>Safety Management Systems</b>
<b>6</b>	<b>SMS Documentation</b>
<b>MR</b>	<b>6B, 6C.1</b>
<b>Guidance Material</b>	
<b>6B</b>	No Guidance.
<b>6C.1</b>	<p>The documented procedures should be appropriate to the size, nature, and complexity of the company. SMS records, for example hazard logs, risk assessments, safety cases, meeting minutes should be included in the company records and document management process. Safety critical activities related to aircraft operations can be listed in the SMS manual or listed in other manuals or expositions and should be linked.</p>
<b>6ACC.1</b>	None.
<b>6VAR.1</b>	None.

<b>R691-1</b>	<b>Safety Management Systems</b>
<b>7</b>	<b>Safety Risk Assessment and Hazard Identification</b>
<b>MR</b>	<b>7B, 7C.1, 7C.2, 7C.3, 7C.4, 7C.5, 7C.6, 7C.7, 7C.8, 7C.9</b>
<b>Guidance Material</b>	
<b>7B</b>	No Guidance.
<b>7C.1</b>	Previous versions of SGRAO used Hazard and Effects Management Processes, (HEMP), IOGP691 uses Hazard Risk Management, which is equivalent.
<b>7C.2</b>	Hazards should be identified using internal resources such as staff reviews, external resources such as accident and incident reports, environmental influences, geography etc.
<b>7C.3</b>	A Worst-Case Credible Scenario is defined as "An Event that could realistically occur and that has the worst outcome from release of a Hazard if the Controls fail."
<b>7C.4</b>	The Risk Assessment process should be used to compare the severity and likelihood of a hazard being released and information. Instruction, training, and supervision should be provided so that people are competent to apply the Risk Assessment Matrix (RAM). A Hazards and Effects Register is defined as "A list of the Hazards that are associated with an activity, together with their potential Effects and assessed Risk."
<b>7C.5</b>	ALARP could be defined as "The point at which the cost (in time, money and effort) of further Risk reduction is grossly disproportionate to the Risk reduction achieved;" and, Reasonably Practicable is defined as "In the context of Managing Risk achievable without a gross disproportion between the cost (in time, money and effort) and the benefit."
<b>7C.6</b>	Low risk hazards may not be tracked in the Formal Risk Assessments. Hazards assessed as medium risk, should eliminate, or substitute the hazards where Reasonably Practicable, or identify and implement controls and recovery measures to manage the risks to ALARP. Hazards assessed as High risk, should have a Bowtie or equivalent analysis method applied, to demonstrate ALARP.
<b>7C.7</b>	See Incident Reporting, Investigation and Learning – Section 8
<b>7C.8</b>	The Remedial Action Plan (RAP) should be tied to the Documented Demonstration of ALARP process in 7C.5, and a RAP could be defined as "A plan to implement corrective action items."
<b>7C.9</b>	The HRM review process should contain a monitoring and verification process or method, which is tied to the company assurance process that validates the effectiveness of the controls and recovery measures. See also 691-1, 11C.5.
<b>7ACC.1</b>	None.
<b>7VAR.1</b>	None.

<b>R691-1</b>	<b>Safety Management Systems</b>	
<b>8</b>	<b>Incident reporting, investigation, and learning</b>	
<b>MR</b>	<b>8B, 8C.1, 8C.2, 8C.3, 8C.4, 8C.5</b>	
<b>Guidance Material</b>		
<b>8B</b>	No Guidance.	
<b>8C.1</b>	No Guidance.	
<b>8C.2</b>	Though often of a minor nature, reports can be indicative of a potential hazard or trend that will only be recognised through systematic investigation and data analysis.	
<b>8C.3</b>	Confirm Shell contacts and reporting lines are up to date.	
<b>8C.4</b>	The Risk Assessment Matrix (RAM), or process, should include the effects on People, Assets, Community, Environment (PACE), and be consistent throughout the company.	
<b>8C.5</b>	The scope of an internal safety investigations should be of a scale suitable to determine why an event occurred and validate or identify the underlying hazards and should take place as soon as possible after the event. The HFACS framework provides a tool to assist in the investigation process and target training and prevention efforts.	8C.5.4 - The relevant Shell Technical Authority - Air Transport (TA/1) and/or TA/0, can request involvement in investigations, to meet the requirements in 691-2, 8C.5, Joint Investigations, where possible.  <b><u>This requirement is managed and recorded locally.</u></b>
<b>8C.6</b>	This element should be integrated such that it supports the effectiveness of the Safety Risk Management and Management Review processes as described in 691-1, Safety Management Systems - General	
<b>8C.7</b>	The investigation process should contain a monitoring and verification process or method, which is tied to the HRM process, that validates the effectiveness of the controls and recovery measures.	
<b>8C.8</b>	Personnel should have confidence in the Just Culture and the reporting system. They should know that confidentiality will be maintained and that the information they submit will be acted upon, otherwise they may decide that there is no benefit in their reporting. Just Culture process such as Baines Simmons FAIR®3 System, and tools should be used.	
<b>8C.9</b>	No Guidance.	
<b>8ACC.1</b>	None.	
<b>8VAR.1</b>	None.	

<b>R691-1</b>	<b>Safety Management Systems</b>
<b>9</b>	<b>Safety Performance Monitoring</b>
<b>MR</b>	<b>9B, 9C.1</b>
<b>Guidance Material</b>	
<b>9B</b>	No Guidance.
<b>9C.1</b>	Safety Performance Indicators (SPI) are developed and maintained appropriate to the size, nature, and complexity of the organisation and should typically monitor data from various sources. SPIs should support the effectiveness of management review
<b>9ACC.1</b>	None.
<b>9VAR.1</b>	None.

<b>R691-1</b>	<b>Safety Management Systems</b>
<b>10</b>	<b>Management of Change</b>
<b>MR</b>	<b>10B, 10C.1, 10C.2</b>
<b>Guidance Material</b>	
<b>10B</b>	A documented Management of Change (MOC) process should be initiated, when appropriate, typically, for the following: <ul style="list-style-type: none"> <li>• Significant personnel and organisational changes.</li> <li>• Introduction of a new base.</li> <li>• Introduction of a new aircraft type.</li> </ul>
<b>10C.1</b>	An individual should manage each MOC process, and they should designate who is approved to sign off the change as completed.
<b>10C.2</b>	No Guidance.
<b>10ACC.1</b>	None.
<b>10VAR.1</b>	None.

<b>R691-1</b>	<b>Safety Management Systems</b>
<b>11</b>	<b>Continuous Improvement - Assurance</b>
<b>MR</b>	<b>11B, 11C.1, 11C.2, 11C.3, 11C.4, 11C.5, 11C.6, 11C.7</b>
<b>Guidance Material</b>	
<b>11B</b>	The system may also be called Compliance Monitoring, and some companies also use Quality Control processes as part of the system. These should be described in applicable manuals, which cover departmental procedures, duties, responsibilities, and reporting relationships.
<b>11C.1</b>	No Guidance.
<b>11C.2</b>	No Guidance.
<b>11C.3</b>	No Guidance.
<b>11C.4</b>	The programme of audits should monitor compliance with the operator's published manuals, as listed in 11C.4.1. In addition, any Shell additional items or contract requirements should also be covered. The company assurance process should contain a monitoring and verification process or method, which is tied to the Hazard Risk Management review process that validates the effectiveness of the controls and recovery measures. 11C.4.1 – Contractors to be assessed against 69x are agreed with the relevant Shell Technical Authority - Air Transport (TA/1), See 14VAR.1
<b>11C.5</b>	The company assurance process validates the effectiveness of the controls and recovery measures developed in the Hazard Risk Management. See 691-1, 7C.9.
<b>11C.6</b>	The records/data management system is appropriate to the size and complexity of the company.
<b>11C.7</b>	No Guidance.
<b>11ACC.1</b>	None.
<b>11VAR.1</b>	The relevant Shell Technical Authority - Air Transport (TA/1), agrees 11C.4.1 Relevant Contractors with the operator.

<b>R691-1</b>	<b>Safety Management Systems</b>
<b>12</b>	<b>Training, Competence, and Education</b>
<b>MR</b>	<b>12B, 12C.1, 12C.2, 12C.3, 12C.4</b>
<b>Guidance Material</b>	
<b>12B</b>	No Guidance.
<b>12C.1</b>	No Guidance.
<b>12C.2</b>	No Guidance.
<b>12C.3</b>	No Guidance.
<b>12C.4</b>	Training should cover duties within the SMS and should consider everyone's level of involvement in the SMS and training records should record the assessment and relevant training, including the result.
<b>12ACC.1</b>	None.
<b>12VAR.1</b>	None.



<b>R691-1</b>	<b>Safety Management Systems</b>
<b>13</b>	<b>Safety Communication</b>
<b>MR</b>	<b>13B, 13C.1, 13C.2, 13C.3, 13C.4, 13C.5, 13C.6</b>
<b>Guidance Material</b>	
<b>13B</b>	No Guidance.
<b>13C.1</b>	<p>The Safety Commitment and Policy Documents policy documents, typically should:</p> <ul style="list-style-type: none"> <li>• ICAO Guidance: <ul style="list-style-type: none"> <li>○ The safety policy be developed and endorsed by senior management and is to be signed by the accountable executive.</li> <li>○ Seek to create an environment where safety management can be effective.</li> <li>○ Set out senior management’s commitment to safety.</li> <li>○ Commit to the allocation of resources. for the implementation of the safety policy.</li> </ul> </li> <li>• Actively encouraging effective reporting by defining a Just Culture, see 691-8, 8C.8.</li> <li>• The Safety Commitment and Policy Documents should be communicated and be readily available to staff, e.g. By highlighting them in training and posting them at appropriate locations.</li> <li>• The safety policy should be reviewed at appropriate intervals, to ensure it remains relevant and appropriate to the company.</li> </ul>
<b>13C.2</b>	<p>The range of safety promotion and communication processes should.</p> <ul style="list-style-type: none"> <li>• Explain why safety actions are taken.</li> <li>• Explain why safety procedures are introduced or changed.</li> <li>• Seek feedback on safety issues or actions.</li> </ul>
<b>13C.3</b>	<p>The formal meetings could be appropriate safety committees. However, under the ICAO definitions of these meetings departmental Safety meetings are typically the Safety Action Group (SAG). It should be comprised of managers, supervisors and personnel from operational areas, and membership of the SAG and frequency of meetings should be defined.</p> <p>Dependent on the size of the organisation, separate meetings for each department may be required.</p>
<b>13C.4</b>	<p>The Accountable Executive Meeting under the ICAO definitions may be established as the Safety Review Board (SRB) and in small organisations, the SAG and SRB could be combined. The SRB should consist of Senior Leaders and the Accountable Manager or equivalent should attend.</p>
<b>13C.5</b>	<p>Safety critical information can also be disseminated and conveyed, by, Presentations, Safety Notices, Websites and e-mails, and workplace meetings between staff and the accountable executive or senior managers.</p>
<b>13C.6</b>	<p>The read and acknowledge process could be digital or physical.</p>
<b>13ACC.1</b>	None.
<b>13VAR.1</b>	None.

<b>R691-1</b>	<b>Safety Management Systems</b>
<b>14</b>	<b>Line Operations Safety Audit</b>
<b>MR</b>	<b>14B, 14C.1, 14C.2, 14C.3, 14C.4, 14C.5, 14C.6, 14C.7, 14C.8</b>
<b>Guidance Material</b>	
<b>14B</b>	Line Operations Safety Audit (LOSA) requirement can be varied with agreement of the relevant Shell Technical Authority - Air Transport (TA/1), See 14VAR.1
<b>14C.1</b>	No Guidance.
<b>14C.2</b>	All LOSA programmes should be based upon an anonymous, confidential, and non-punitive approach, as highlighted in the ICAO and FAA Guidance and an appropriate feedback process for pilots is in place.
<b>14C.3</b>	No Guidance.
<b>14C.4</b>	Observation flights should use specially trained observers. Observation flights should be conducted on normal, routine, flights. A representative sample of company flights should be carried out. Observations of Threats, Errors, and undesired states should be recorded.
<b>14C.5</b>	No Guidance.
<b>14C.6</b>	No Guidance.
<b>14C.7</b>	The relevant Shell Technical Authority - Air Transport (TA/1) should secure seating capacity for a specific period for the observer to successfully complete the required LOSA flights: <ul style="list-style-type: none"> <li>Preference is that the LOSA program is shared at a base over multiple customers if possible.</li> </ul> Operators should liaise on conducting LOSA flights in aircraft not equipped with jump seats and observers should be considered part of the flight crew
<b>14C.8</b>	LOSA programmes for airplanes with a Maximum Operational Passenger Seating Capacity (MOPSC) of 19 or less, can be varied with reference to the relevant Shell Technical Authority - Air Transport (TA/1), See 14VAR.2
<b>14ACC</b>	None.
<b>14VAR.1</b>	The relevant Shell Technical Authority - Air Transport (TA/1), can vary requirement MR14B, Implementation of a LOSA Programme for Limited Exposure contracts, if at the location no LOSA compliant operator is available.
<b>14VAR.2</b>	The relevant Shell Technical Authority - Air Transport (TA/0), can apply to the TA/0 for an Exception when LOSA programmes for aeroplanes with a MOPSC of 19 or less are not required.

<b>R691-1</b>	<b>Safety Management Systems</b>
<b>15</b>	<b>Environmental management</b>
<b>MR</b>	<b>15B, 15C.1, 15C.2</b>
<b>Guidance Material</b>	
<b>15B</b>	Environmental Management System (EMS) should align with ISO 14001.
<b>15C.1</b>	No Guidance.
<b>15C.2</b>	No Guidance.
<b>15ACC.1</b>	None.
<b>15VAR.1</b>	None.

<b>R691-2</b>	<b>Aircraft Operations</b>
<b>1</b>	<b>Air Operator Certificate</b>
<b>MR</b>	<b>1B, 1C.1, 1C.2, 1C.3</b>
<b>Guidance Material</b>	
<b>1B</b>	No Guidance.
<b>1C.1</b>	No Guidance.
<b>1C.2</b>	The hierarchy of manuals may be issued in separate parts corresponding to specific aspects of an operation. It should include the instructions and information necessary to enable the personnel concerned to perform their duties and all controlled documents should be read and understood by new employees and by all employees when amended.
<b>1C.3</b>	Some NAA's do not require "official NAA approval/nominations" for the operator management team, in all circumstances the aircraft operator should be able to demonstrate that it has sufficient competent management staff.
<b>1ACC.1</b>	None.
<b>1VAR.1</b>	None.

<b>R691-2</b>	<b>Aircraft Operations</b>
<b>2</b>	<b>Management of Personnel</b>
<b>MR</b>	<b>2B, 2C.1, 2C.2, 2C.3</b>
<b>Guidance Material</b>	
<b>2B</b>	No Guidance.
<b>2C.1</b>	No Guidance.
<b>2C.2</b>	No Guidance.
<b>2C.3</b>	No Guidance.
<b>2ACC.1</b>	None.
<b>2VAR.1</b>	None.

<b>R691-2</b>	<b>Aircraft Operations</b>
<b>3</b>	<b>Reserved</b>

<b>R691-2</b>	<b>Aircraft Operations</b>
<b>4</b>	<b>Drug and Alcohol Policy</b>
<b>MR</b>	<b>4B, 4C.1, 4C.2, 4C.3, 4C.4</b>
<b>Guidance Material</b>	
<b>4B</b>	For local/contract requirements, refer to relevant Shell Technical Authority - Air Transport (TA/1). This should apply to all staff involved in aircraft operations.
<b>4C.1</b>	Refer to Shell local/contract requirements.
<b>4C.2</b>	No Guidance.
<b>4C.2</b>	No Guidance.
<b>4C.4</b>	No Guidance.
<b>4ACC.1</b>	None.
<b>4VAR.1</b>	None.

<b>R691-2</b>		<b>Aircraft Operations</b>	
<b>5</b>		<b>Automation</b>	
<b>MR</b>	<b>5B, 5C.1, 5C.2, 5C.3, 5C.4, 5C.5, 5C.6, 5C.7</b>		
<b>Guidance Material</b>			
<b>5B</b>	No Guidance.		
<b>5C.1</b>	The documented procedures should describe the use of an appropriate level of automation for the task, including manual flying and the policy should include monitoring of the AFCS/Flight Management Systems (FMS) by: <ul style="list-style-type: none"> <li>• Phases of flight</li> <li>• Cross-checking the mode selection and the status,</li> <li>• Annunciation, confirmation, activation, and cross verification,</li> <li>• Then observing the result of any change; and,</li> <li>• Supervising the resulting guidance and aircraft performance.</li> </ul>		
<b>5C.2</b>	No Guidance.		
<b>5C.3</b>	No Guidance.		
<b>5C.4</b>	No Guidance.		
<b>5C.5</b>	No Guidance.		
<b>5C.6</b>	No Guidance.		
<b>5C.7</b>	No Guidance.		
<b>5ACC.1</b>	None.		
<b>5VAR.1</b>	None.		

<b>R691-2</b>		<b>Aircraft Operations</b>	
<b>6</b>		<b>Aircraft Terrain Awareness Warning Systems</b>	
<b>MR</b>	<b>6B, 6C.1, 6C.2.</b>		
<b>Guidance Material</b>			
<b>6B</b>	No Guidance.		
<b>6C.1</b>	No Guidance.		
<b>6C.2</b>	No Guidance.		
<b>6ACC.1</b>	None.		
<b>6VAR.1</b>	None.		

<b>R691-2</b>		<b>Aircraft Operations</b>	
<b>7</b>		<b>Airborne Collision Avoidance Systems</b>	
<b>MR</b>	<b>7B, 7C.1, 7C.2, 7C.3</b>		
<b>Guidance Material</b>			
<b>7B</b>	No Guidance.		
<b>7C.1</b>	The operator guidance should be part of an overarching collision avoidance policy that should detail: <ul style="list-style-type: none"> <li>• Crew should be required to maintain control and an effective lookout whilst one crew member is engaged in tasks inside the cockpit.</li> <li>• Specification of what TCAS mode is to be used, and,</li> <li>• When Traffic Alert (TA) ONLY (TCAS1) mode can be used.</li> </ul>		
<b>7C.2</b>	No Guidance.		
<b>7C.3</b>	See 7 VAR.1.		
<b>7ACC.1</b>	None.		
<b>7VAR.1</b>	The relevant Shell Technical Authority - Air Transport (TA/1), can vary requirement MR 7C.3. For Full details see 691-5, Aircraft and Equipment, Section 8, Aircraft and Equipment, Airborne Collision Avoidance Systems.		

R691-2	Aircraft Operations	
8	Flight Data Monitoring	
MR	8B, 8C.1, 8C.2, 8C.3, 8C.4, 8C.5, 8C.6, 8C.7, 8C.8, 8C.9	
Guidance Material		
8B	No Guidance.	
8C.1	See 8VARACC.1.	
8C.2	The training and competence of the FDM personnel should be tracked in an appropriate system, and functional positions required for an Aircraft Operator FDM system are appropriate to the operator's size. The person with overall responsibility for managing the FDM programme and the person responsible for FDM data analysis should be able to demonstrate their competence, as defined in the competence requirements documented for the position.	
8C.3	Data download requirements should cater for aircraft operating from remote bases, a means of downloading and transmitting the data daily is established.	8C.3 - The relevant Shell Technical Authority - Air Transport (TA/1) can interim regular download schedule, if due to the aircraft location, a daily download is not achievable.  <b><u>This requirement is managed and recorded locally.</u></b>
8C.4	Flight crew contact should include: <ul style="list-style-type: none"> <li>• A process for crews to request the analysis of specific flights or events.</li> <li>• For events assessed as operational risk, the more comprehensive process could use the software flight playback capability.</li> <li>• A contact process for crew conducting operations from bases where face-to-face briefing with pilot liaison personnel may not be possible.</li> </ul>	
8C.5	Communication of FDM data complies with the operator's confidentiality agreement, regular FDM reports, summarizing event activity within the organisation and highlighting learnings from the analysis, should be produced.	
8C.6	No Guidance.	
8C.7	No Guidance.	
8C.8	No Guidance.	
8C.9	No Guidance.	
8ACC.1	None	
8VAR.1	The relevant Shell Technical Authority - Air Transport (TA/1), is to review and agree, requirement MR8C.1, Scope of Coverage, Event Sets and Documented Thresholds and the review details, are to be recorded.	

<b>R691-2</b>	<b>Aircraft Operations</b>
<b>9</b>	<b>Aircraft Performance</b>
<b>MR</b>	<b>9B, 9C.1, 9C.2, 9C.3, 9.4</b>
<b>Guidance Material</b>	
<b>9B</b>	See 690-5, Section 2, Assessed Aircraft, 2ACC.1, 2.VAR.1, for Guidance on the use of Single Engined Turbine aircraft for Commercial Air Transport.
<b>9C.1</b>	No Guidance.
<b>9C.2</b>	No Guidance.
<b>9C.3</b>	The calculated accelerate-go distance should not exceed the Take Off Distance Available (TODA), Accelerate Stop Distance Available (ASDA), Take Off Run Available (TORA).
<b>9C.4</b>	No Guidance.
<b>9C.5</b>	No Guidance.
<b>9C.6</b>	No Guidance.
<b>9C.7</b>	No Guidance.
<b>9C.8</b>	No Guidance.
<b>9C.9</b>	No Guidance.
<b>9C.10</b>	No Guidance.
<b>9C.11</b>	No Guidance.
<b>9ACC.1</b>	None
<b>9VAR.1</b>	None

<b>R691-2</b>	<b>Aircraft Operations</b>
<b>10</b>	<b>Reserved</b>

<b>R691-2</b>	<b>Aircraft Operations</b>
<b>11</b>	<b>Flight Crew - Experience and Qualification</b>
<b>MR</b>	<b>11B, 11C.1, 11C.2, 11C.3.</b>
<b>Guidance Material</b>	
<b>11B</b>	This section reverts to an hours-based program and is aligned with BARS.
<b>11C.1</b>	No Guidance.
<b>11C.2</b>	See 11VAR.1. Any variation should be based on SGARO V4, Section FOR 04.02, FOR 04.02 Flight Crew Qualifications and Experience – Fixed Wing, Para 5, and Guidance Section 5.
<b>11C.3</b>	No Guidance.
<b>11ACC.1</b>	None.
<b>11VAR.1</b>	The relevant Shell Technical Authority - Air Transport (TA/1) can vary requirement 691-2, Section 11C3, Table 1, where a clear operational need can be demonstrated.

<b>R691-2</b>	<b>Aircraft Operations</b>
<b>12</b>	<b>Flight Crew Experience - Pilot in Command Under Supervision Flight Time</b>
<b>MR</b>	<b>12B, 12C.1, 12C.2</b>
<b>Guidance Material</b>	
<b>12B</b>	No Guidance.
<b>12C.1</b>	No Guidance.
<b>12C.2</b>	No Guidance.
<b>12ACC.1</b>	None
<b>12ACC.1</b>	None.

<b>R691-2</b>	<b>Aircraft Operations</b>
<b>13</b>	<b>Medical Certification</b>
<b>MR</b>	<b>13B, 13C.1, 13ACC.1 &amp; 13ACC.2</b>
<b>Guidance Material</b>	
<b>13B</b>	<p>International Civil Aviation Organization, (ICAO): November 2014 Amendment 172 to Annex 1 – Personnel Licensing became applicable, concerning the upper age limit for pilots engaged in international commercial air transport operations, as follows:</p> <ul style="list-style-type: none"> <li>• Limitation of privileges of pilots who have attained their 60th birthday and curtailment of privileges of pilots who have attained their 65th birthday.</li> <li>• A Contracting State, having issued pilot licenses, shall not permit the holders thereof to act as pilot of an aircraft engaged in international commercial air transport operations if the license holders have attained their 60th birthday or, in the case of operations with more than one pilot, their 65th birthday.</li> <li>• The Standard limits the privileges for pilots in single-pilot commercial air transport operations to 60 years of age, while extending that limit to 65 years of age for multi-pilot operations. This applies to operations conducted in all categories of manned aircraft and is valid for all pilot positions designated by an operator.</li> </ul>
<b>13C.1</b>	ICAO specifies an annual medical assessment for those under 60 years who are engaged in two-pilot operations but when over 60, a six-monthly medical assessment is necessary.
<b>13ACC.1</b>	<p>Shell Requirements to meet MR13B, Medical Certification, are aligned with ICAO, these are:</p> <ul style="list-style-type: none"> <li>• Prohibit the use of pilots on Commercial Air Transport (CAT) Aircraft operations who have reached 65 years of age.</li> <li>• Allow pilots that have attained the age of 60 years or have an operational multi-pilot limitation on their medical certificate, only to operate an aircraft with another pilot provided, when the other pilot is fully qualified and not also subject to an operational multi-pilot limitation; and the other pilot has not attained the age of 60 years.</li> </ul>
<b>13ACC.2</b>	<p>Shell requirement to meet MR13C.1: All pilots flying for the Company when over the age of 60, medicals include and electrocardiography at intervals not exceeding six months</p>
<b>13VAR.1</b>	The relevant Shell Technical Authority – Air Transport, (TA/1) can vary requirement MR13B, Medical Certification, when there are locally allowed variances to the ICAO requirements, which Shell follows.

<b>R691-2</b>	<b>Aircraft Operations</b>
<b>14</b>	<b>Use of Subcontracted Pilots</b>
<b>MR</b>	<b>14B, 14C.1, 14C.2</b>
<b>Guidance Material</b>	
<b>14B</b>	No Guidance.
<b>14C.1</b>	No Guidance.
<b>14C.2</b>	Subcontracted pilots should inform the aircraft operator of all their flight and duty times regardless of where these were accrued, other operator, private flying etc.
<b>14ACC.1</b>	None.
<b>14VAR.1</b>	None.

R691-2	Aircraft Operations
15	Pilots Flying More Than One Aircraft Type
MR	15B, 15C.1, 15C.2, 5C.3, 15C.4, 15C.5
Guidance Material	
<b>15B</b>	Type is defined as either: <ul style="list-style-type: none"> <li>An entry on the pilot's licence that allows them to act as pilot on the type of aircraft specified in the rating; or,</li> <li>A specific manufacturer's type or variant, in those countries where some aircraft types are not required to be specified on the pilot's licence</li> </ul>
<b>15C.1</b>	No Guidance.
<b>15C.2</b>	No Guidance.
<b>15C.3</b>	No Guidance.
<b>15C.4</b>	No Guidance.
<b>15C.5</b>	No Guidance.
<b>15ACC.1</b>	None.
<b>15VAR.1</b>	None.

R691-2	Aircraft Operations
16	Composition of Flight Crew
MR	16B, 16C.1, 16C.2
Guidance Material	
<b>16B</b>	No Guidance.
<b>16C.1</b>	The relevant Shell Technical Authority – Air Transport, (TA/1) can agree with the operator when to allow Single Pilot, FAR/CS 23 IFR/VFR: Cargo only.
<b>16C.2</b>	No Guidance.
<b>16ACC.1</b>	None.
<b>16VAR.1</b>	The relevant Shell Technical Authority – Air Transport, (TA/1) can vary requirement MR16C. 1 Single Pilot cargo operations.

R691-2	Aircraft Operations
17	Flight Crew Fatigue Management - Flight Time Limits
MR	17B, 17C.1, 17C.2
Guidance Material	
<b>17B</b>	Flight Time Limits should be documented along with a process to record, track and prevent exceedance.  See 18ACC.2 for Duty Periods.
<b>17C.1</b>	No Guidance.
<b>17C.2</b>	A daily record should be maintained of each Crew member's flying hours showing the cumulative totals for the past periods of 24 hours, 7 days, 28 days, and per year.
<b>17ACC.1</b>	None.
<b>17VAR.1</b>	None.



<b>R691-2 Aircraft Operations</b>	
<b>18 Flight Crew Fatigue Management - Flight Duty Times and Rest Periods</b>	
<b>MR</b>	<b>18B, 18C.1, 18C.2, 18C.3, 18C.4, 18C.5, 18C.6, 18ACC.1 &amp; 18ACC.2</b>
<b>Guidance Material</b>	
<b>18B</b>	No Guidance.
<b>18C.1</b>	See 18ACC.1 and 18VAR.1- Maximum Shell FDP is 12 Hours in a single day.
<b>18C.2</b>	A daily record should be maintained for each Crew member's FDP showing the cumulative totals for the past periods of 7, 14, and 28 days, and this should not exceed the following FDP cumulative limits detailed in the operations manual.
<b>18C.3</b>	The operations manuals should define each Crew member's FDP permitted cumulative totals. Crews that arrive following prolonged or overnight travel, or travel exceeding four time zone changes, should not be rostered for flying duties until the minimum 10-hour rest period is met – See 19C1. Guidance should be in place for "dead-heading crews" or positioning crews.
<b>18C.4</b>	No Guidance.
<b>18C.5</b>	No Guidance.
<b>18C.6</b>	No Guidance.
<b>18ACC.1</b>	Shell requirements to meet MR18C.1: Flight Duty Periods (FDP) are: <ul style="list-style-type: none"> <li>• A Maximum 14 Hour Flight Duty in a single Day</li> <li>• 11 for Single Pilot</li> <li>• 84 hours in any 7 consecutive day period</li> <li>• 132 hours in 14 days</li> <li>• 210 hours in any 28 consecutive day period.</li> </ul>
<b>18ACC.2</b>	Shell requirements to meet MR18C.3, Flight Crew are: <ul style="list-style-type: none"> <li>• Do not work more than seven consecutive days between days off.</li> <li>• Have no less than two consecutive days off in 14 days.</li> <li>• Have at least eight days off in each consecutive five-week period averaged over three such periods.</li> </ul>
<b>18VAR.1</b>	The relevant Shell Technical Authority - Air Transport, (TA/1) can vary 18 ACC.1, Flight Duty Period (FDP), when a Fatigue Risk Management System (FRMS) is in place.
<b>18VAR.2</b>	The relevant Shell Technical Authority - Air Transport, (TA/1) can vary 18 ACC.2, for Flight Crew working a customised work schedule (14 days on/14 days off etc.) that have a (FRMS) system approved by the National Aviation Authority (NAA), which may allow deviation from the days off requirements.

<b>R691-2 Aircraft Operations</b>	
<b>19 Flight Crew Fatigue Management - Rest for Rotating Crews</b>	
<b>MR</b>	<b>19B, 19C.1, 19C.2</b>
<b>Guidance Material</b>	
<b>19B</b>	No Guidance.
<b>19C.1</b>	Guidance should be in place for "dead heading" or positioning crews.
<b>19C.2</b>	See 18ACC.2, and 18VAR.2:
<b>19ACC.1</b>	None.
<b>19VAR.1</b>	None.

<b>R691-2</b>	<b>Aircraft Operations</b>
<b>20</b>	<b>Flight Crew Fatigue Management - Night Standby Duty</b>
<b>MR</b>	<b>20B, 20C.1, 20C.2</b>
<b>Guidance Material</b>	
<b>20B</b>	No Guidance.
<b>20C.1</b>	No Guidance.
<b>20C.2</b>	No Guidance.
<b>20ACC.1</b>	None.
<b>20VAR.2</b>	None.

<b>R691-2</b>	<b>Aircraft Operations</b>
<b>21</b>	<b>Aviation weather - IFR/VFR</b>
<b>MR</b>	<b>21B, 21C.1, 21C.2.</b>
<b>Guidance Material</b>	
<b>21B</b>	No Guidance
<b>21C.1</b>	No Guidance
<b>21C.2</b>	No Guidance.
<b>21ACC.1</b>	None.
<b>21VAR.2</b>	None.

<b>R691-2</b>	<b>Aircraft Operations</b>
<b>22</b>	<b>Aviation Weather - Adverse weather policy</b>
<b>MR</b>	<b>22B, 22C.1, 22C.2, 22C.3, 22C.4, 22C.5, 22C.6, 22C.7.</b>
<b>Guidance Material</b>	
<b>22B</b>	No Guidance.
<b>22C.1</b>	No Guidance.
<b>22C.2</b>	No Guidance.
<b>22C.3</b>	No Guidance.
<b>22C.4</b>	No Guidance.
<b>22C.5</b>	No Guidance.
<b>22C.6</b>	No Guidance.
<b>22C.7</b>	No Guidance.
<b>22ACC.1</b>	None.
<b>22VAR.2</b>	None.

<b>R691-2</b>	<b>Aircraft Operations</b>
<b>23</b>	<b>Reserved</b>

<b>R691-2</b>	<b>Aircraft Operations</b>
<b>24</b>	<b>Reserved</b>

<b>R691-2</b>	<b>Aircraft Operations</b>
<b>25</b>	<b>Reserved</b>

<b>R691-2</b>	<b>Aircraft Operations</b>
<b>26</b>	<b>Flight Planning</b>
<b>MR</b>	<b>26B, 26C.1</b>
<b>Guidance Material</b>	
<b>26B</b>	No Guidance.
<b>26C.1.</b>	No Guidance.
<b>26ACC.1</b>	None.
<b>26VAR.1</b>	None.

<b>R691-2</b>	<b>Aircraft Operations</b>																						
<b>27</b>	<b>Fuel Planning</b>																						
<b>MR</b>	<b>27B, 27C.1, 27C.2</b>																						
<b>Guidance Material</b>																							
<b>27B</b>	<p>All flights should consider:</p> <ul style="list-style-type: none"> <li>• Extra fuel, at the discretion of the Pilot-in-Command (PIC) to cover deviations from planned operations.</li> <li>• Additional fuel should the aircraft operator's fuel policy includes planning to an isolated aerodrome.</li> </ul>																						
<b>27C.1</b>	<p>Guidance on terms for Flight Planning:</p> <table border="1"> <thead> <tr> <th>Fuel Ladder Term</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1. Taxi Fuel</td> <td>Fuel to account for departure from the Gate, Start up, and Taxi to the runway. This should be adjusted for airport congestion and take into consideration any Deicing/Anti icing operations.</td> </tr> <tr> <td>2. Trip Fuel</td> <td>Enroute Burn, fuel from start of the takeoff run, climb, cruise, descent, approach and landing and the intended destination airport.</td> </tr> <tr> <td>3. Unplanned Contingency Fuel</td> <td>Fuel to account for unforeseen deviations to the Trip Fuel. Typically this is a percentage of the Trip Time. (United States this is 10 %) (ICAO 5% of the Trip time, but never less than 5 minutes of fuel calculated at 1500 feet at holding speed) ICAO allows for Performance Based planning</td> </tr> <tr> <td>4. Planned Contingency Fuel</td> <td>Fuel for KNOWN delays, ATC Programs runway closures, Weather delays that are known to exist prior to departure.</td> </tr> <tr> <td>5. Alternate Airport Fuel</td> <td>Fuel to account for Destination Alternate IAW recommended Standards</td> </tr> <tr> <td>6. Final Reserve Fuel</td> <td>30 minutes of fuel planned at 1500 feet, at holding speed.</td> </tr> <tr> <td>7. Additional or Discretionary Fuel</td> <td>Additional Fuel, fuel for MEL CDL and some operators will use this for Captain discretion fuel addition</td> </tr> <tr> <td>Minimum Fuel Required</td> <td>Sum of rows 2-8, This is required at the start of the takeoff run from the departure airport</td> </tr> <tr> <td>8. Tanker Fuel</td> <td>Fuel for cost saving, carried from Departure to Destination to allow reduction in cost from the Destination to the next intended airport.</td> </tr> <tr> <td>Departure Fuel Required</td> <td>Sum of rows 1-8, Fuel required at start of Pushback or departure from the gate.</td> </tr> </tbody> </table> <p>Reference ICAO Annex 6.</p>	Fuel Ladder Term	Description	1. Taxi Fuel	Fuel to account for departure from the Gate, Start up, and Taxi to the runway. This should be adjusted for airport congestion and take into consideration any Deicing/Anti icing operations.	2. Trip Fuel	Enroute Burn, fuel from start of the takeoff run, climb, cruise, descent, approach and landing and the intended destination airport.	3. Unplanned Contingency Fuel	Fuel to account for unforeseen deviations to the Trip Fuel. Typically this is a percentage of the Trip Time. (United States this is 10 %) (ICAO 5% of the Trip time, but never less than 5 minutes of fuel calculated at 1500 feet at holding speed) ICAO allows for Performance Based planning	4. Planned Contingency Fuel	Fuel for KNOWN delays, ATC Programs runway closures, Weather delays that are known to exist prior to departure.	5. Alternate Airport Fuel	Fuel to account for Destination Alternate IAW recommended Standards	6. Final Reserve Fuel	30 minutes of fuel planned at 1500 feet, at holding speed.	7. Additional or Discretionary Fuel	Additional Fuel, fuel for MEL CDL and some operators will use this for Captain discretion fuel addition	Minimum Fuel Required	Sum of rows 2-8, This is required at the start of the takeoff run from the departure airport	8. Tanker Fuel	Fuel for cost saving, carried from Departure to Destination to allow reduction in cost from the Destination to the next intended airport.	Departure Fuel Required	Sum of rows 1-8, Fuel required at start of Pushback or departure from the gate.
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<b>27ACC.1</b>	None.																						
<b>27VAR.1</b>	None.																						

<b>R691-2</b>	<b>Aircraft Operations</b>
<b>28</b>	<b>Reserved</b>

<b>R691-2</b>	<b>Aircraft Operations</b>
<b>29</b>	<b>Reserved</b>

<b>R691-2</b>	<b>Aircraft Operations</b>
<b>30</b>	<b>Flight Procedures – General</b>
<b>MR</b>	<b>30B, 30C.1, 30C.2, 30C.3, 30C.4.</b>
<b>Guidance Material</b>	
<b>30B</b>	No Guidance.
<b>30C.1</b>	No Guidance.
<b>30C.2</b>	<a href="#">TEM guidance document</a> available upon request
<b>30C.3</b>	No Guidance.
<b>30C.4</b>	No Guidance.
<b>30C.5</b>	No Guidance.
<b>30C.6</b>	No Guidance.
<b>30ACC.1</b>	None.
<b>30VAR.1</b>	None.

<b>R691-2</b>	<b>Aircraft Operations</b>
<b>31</b>	<b>Flight Procedures – Sterile Cockpit</b>
<b>MR</b>	<b>31B, 31C.1, 31C.2</b>
<b>Guidance Material</b>	
<b>31B</b>	No Guidance.
<b>31C.1</b>	<p>The sterile or focused cockpit policy should include:</p> <ul style="list-style-type: none"> <li>• Intra-cockpit communication protocols during critical phases of flight.</li> <li>• Altitude and level changes, and initiation of changes in route clearances until the new routing is confirmed and established.</li> <li>• Restriction of activities to essential operational matters during critical phases of flight, which should include: <ul style="list-style-type: none"> <li>○ All ground operations.</li> <li>○ Take-off until the departure phase is considered complete.</li> <li>○ Approach and landing from when the approach and landing phase commence; and,</li> <li>○ The Aircraft Operator should document the commencement and conclusion of the phases described above.</li> </ul> </li> </ul>
<b>31C.2</b>	No Guidance.
<b>31ACC.1</b>	None.
<b>31VAR.1</b>	None.

<b>R691-2</b>	<b>Aircraft Operations</b>
<b>32</b>	<b>Flight procedures – Aircraft Stabilized Approaches and Landings</b>
<b>MR</b>	<b>32B, 32C.1, 32C.2, 32C.3, 32C.4, 32C.5, 32C.6, 32C.7, 32C.8</b>
<b>Guidance Material</b>	
<b>32B</b>	No Guidance.
<b>32C.1</b>	Landings should only be made from a stabilized approach.
<b>32C.2</b>	No Guidance.
<b>32C.3</b>	No Guidance.
<b>32C.4</b>	No Guidance.
<b>32C.5</b>	Crews should brief specifically what the Aircraft configuration is to be and by when, and to be clear of what is expected of the crew if those targets are not met. This could be considered a gate prior to a stabilized approach gate on an instrument approach.
<b>32C.6</b>	No Guidance
<b>32C.7</b>	No Guidance.
<b>32C.8</b>	No Guidance.
<b>32C.9</b>	No Guidance.
<b>32ACC.1</b>	None.
<b>32VAR.1</b>	None.

<b>R691-2</b>	<b>Aircraft Operations</b>
<b>33</b>	<b>Reserved</b>

<b>R691-2</b>	<b>Aircraft Operations</b>
<b>34</b>	<b>Pre-Flight and Post-Flight Procedures</b>
<b>MR</b>	<b>34B, 34C.1, 34C.2, 34C.3, 34C.4</b>
<b>Guidance Material</b>	
<b>34B</b>	No Guidance.
<b>34C.1</b>	No Guidance.
<b>34C.2</b>	No Guidance.
<b>34C.3</b>	No Guidance.
<b>34C.4</b>	No Guidance.
<b>34ACC.1</b>	None.
<b>34VAR.1</b>	None.

<b>R691-2</b>	<b>Aircraft Operations</b>	
<b>35</b>	<b>Flight Following</b>	
<b>MR</b>	<b>35B, 35C.1, 35C.2, 35C.3, 35C.4</b>	
<b>Guidance Material</b>		
<b>35B</b>	No Guidance.	
<b>35C.1</b>	Effective Air Traffic Control (ATC) surveillance services can vary by country and region. The operator should be able to provide evidence that the system is effective.	
<b>35C.2</b>	No Guidance.	
<b>35C.3</b>	Dedicated trained, personnel should be available to monitor and intervene when Satellite Flight Following System (SFFS) polling is interrupted (loss of reports) or if SFFS distress modes are activated. All relevant personnel should be trained and competent.  <b>See 691-5, Section 18, Flight Following for equipment fit requirements.</b>	
<b>35C.4</b>	No Guidance.	
<b>35ACC.1</b>	None.	
<b>35VAR.1</b>	None.	

<b>R691-2</b>	<b>Aircraft Operations</b>	
<b>36</b>	<b>Reserved</b>	

<b>R691-2</b>	<b>Aircraft Operations</b>	
<b>37</b>	<b>Bird Strike Avoidance</b>	
<b>MR</b>	<b>37B, 37C.1, 37C.2, 37C.3, 37C.4</b>	
<b>Guidance Material</b>		
<b>37B</b>	No Guidance.	
<b>37C.1</b>	Transit levels should be at the highest practicable altitudes above the areas identified along the aircraft routing, except during take-off and landing. As part a Risk Assessment, any bird migration in the operating area that is published in the relevant National Aeronautical Publication (AIP) section should be addressed.	
<b>37C.2</b>	No Guidance.	
<b>37C.3</b>	No Guidance.	
<b>37C.4</b>	No Guidance.	
<b>37ACC.1</b>	None.	
<b>37VAR.1</b>	None.	

<b>R691-2</b>	<b>Aircraft Operations</b>	
<b>38</b>	<b>Cabin Area Cargo</b>	
<b>MR</b>	<b>38B, 38C.1, 38C.2, 38C.3</b>	
<b>Guidance Material</b>		
<b>38B</b>	See 38ACC.1.	
<b>38C.1</b>	No Guidance.	
<b>38C.3</b>	No Guidance.	
<b>38C.3</b>	No Guidance.	The relevant Shell Air Technical Authority - Air Transport, (TA/1) approve any cargo carried in the cabin in accordance with NAA requirements.  <b>This variation is managed and recorded locally.</b>
<b>38ACC.1</b>	None.	
<b>38VAR.1</b>	None.	

<b>R691-2</b>	<b>Aircraft Operations</b>	
<b>39</b>	<b>Flight Crew Training – Records and Programmes</b>	
<b>MR</b>	<b>39B, 39C.1</b>	
<b>Guidance Material</b>		
<b>39B</b>	No Guidance.	
<b>39C.1</b>	Training records should demonstrate structured courses, competencies to be achieved and the associated checking process.	
<b>39ACC.1</b>	None.	
<b>39VAR.1</b>	None.	

<b>R691-2</b>	<b>Aircraft Operations</b>	
<b>40</b>	<b>Flight Crew Recency</b>	
<b>MR</b>	<b>40B, 40C.1</b>	
<b>Guidance Material</b>		
<b>40B</b>	<p>This section may not be used in isolation, all other sections of 691 referring to Crew Experience and Scheduling should be compliant.</p> <p>The FAA has an FAR 61.57 (e) (4) (ii) exception for the night recency requirement of 3 takeoffs and landings every 90 days for operators that meet very specific simulator training requirements administered by a Part 142 certified school, this appears to meet Note 5: <i>Use of a simulator of the same type or series being flown is acceptable to meet the night recency requirements, provided this is acceptable under national legislation, and it has the sufficient visual fidelity.</i> And could be used as a means of compliance.</p>	
<b>40C.1 Note one.</b>	No Guidance.	<p>To meet Note 1: If hours are not met, a recency check on the contracted type (a dedicated flight or a normal revenue flight) is conducted by an LTC/TRI. The flight includes at least a sector flying as PM and another sector as PF. Successful completion of a recency check re-establishes recency for 60 days.</p> <p>The relevant Shell Technical Authority, (TA/1), is to be notified each time a recency flight was required.</p> <p style="text-align: center;"><b>This is requirement managed and recorded locally.</b></p>
<b>40ACC.1</b>	None.	
<b>40VAR.1</b>	None.	

<b>R691-2</b>	<b>Aircraft Operations</b>
<b>41</b>	<b>Flight Crew Training – Recurrent Training and Maintenance Check Flights</b>
<b>MR</b>	<b>41B, 41C.1, 41C.2, 41C.3, 41C.4</b>
<b>Guidance Material</b>	
<b>41B</b>	No Guidance.
<b>41C.1</b>	The IOGP 690 text states - The aircraft operator training program covers all major emergencies of the contracted aircraft type in a defined multi-year rolling program. This is accepted as a means of compliance. This was an error in 691 and will be updated at the next revision.
<b>41C.2</b>	No Guidance.
<b>41C.3</b>	No Guidance.
<b>41C.4</b>	No Guidance.
<b>41ACC.1</b>	None.
<b>41VAR.1</b>	The relevant Shell Technical Authority - Air Transport, (TA/1), can vary Section 41C.1, such that the operator training program covers all major emergencies of the contracted aircraft type in a defined multi-year rolling program.

<b>R691-2</b>	<b>Aircraft Operations</b>
<b>42</b>	<b>Rostering Flight Crew</b>
<b>MR</b>	<b>42B, 42C.1</b>
<b>Guidance Material</b>	
<b>42B</b>	No Guidance.
<b>42C.1</b>	No Guidance.
<b>42ACC.1</b>	None.
<b>42VAR.1</b>	None.



<b>R691-2</b>	<b>Aircraft Operations</b>
<b>43</b>	<b>Use of Flight Simulation Training Devices – General</b>
<b>MR</b>	<b>43B, 43C.1, 43C.2, 43C.3, 43C.4</b>
<b>Guidance Material</b>	
<b>43B</b>	No Guidance.
<b>43C.1</b>	43C.1.11 - The operator should specify what is training is done in each seat during simulator sessions.
<b>43C.2</b>	No Guidance.
<b>43C.3</b>	No Guidance.
<b>43C.4</b>	Significant differences covering cockpit design and autopilots, minor equipment differences should be briefed during training and a training standardisation process should verify that training facilities, devices and course materials reflect the configuration of the aircraft for which the training is being provided.
<b>43ACC.1</b>	None.
<b>43VAR.1</b>	None.

<b>R691-2</b>	<b>Aircraft Operations</b>
<b>44</b>	<b>Use of Flight Simulation Training Devices – devices</b>
<b>MR</b>	<b>44B, 44C.1, 44C.2, 44C.3</b>
<b>Guidance Material</b>	
<b>44B</b>	No Guidance.
<b>44C.1</b>	See 44VAR.1.
<b>44C.2</b>	No Guidance.
<b>44C.3</b>	The use of a simulator of the same type and series being flown with a lower certification/specification as described in 44C.1, is used if agreed by the relevant Shell Technical Authority - Air Transport, (TA/1). See 44VAR.1.
<b>44ACC.1</b>	None.
<b>44VAR.1</b>	The Shell Technical Authority - Air Transport, (TA/1), can agree to vary requirement MR44C.3, Simulator Specification, and the use of a simulator of the same type and series being flown with a lower certification/specification.

<b>R691-2</b>	<b>Aircraft Operations</b>
<b>45</b>	<b>Introduction of New Aircraft Types</b>
<b>MR</b>	<b>45B, 45C.1, 45C.2</b>
<b>Guidance Material</b>	
<b>45B</b>	No Guidance.
<b>45C.1</b>	Introduction into service programme agreed with the relevant Shell Technical Authority – Air Transport (TA/1), see 45VAR.1
<b>45C.2</b>	No Guidance.
<b>45C.3</b>	No Guidance.
<b>45ACC.1</b>	None.
<b>45VAR.1</b>	The relevant Shell Technical Authority – Air Transport, (TA/1), in agreement with TA/0, agrees to the introduction of any new type.

<b>R691-2</b>	<b>Aircraft Operations</b>
<b>46</b>	<b>Other Training - Crew Resource Management</b>
<b>MR</b>	<b>46B, 46C.1, 46C.2, 46C.3, 46C.4, 46C.5, 46C.6, 46C.7, 46C.8, 46C.9, 46C.10, 46C.11</b>
<b>Guidance Material</b>	
<b>46B</b>	No Guidance.
<b>46C.1</b>	No Guidance.
<b>46C.2</b>	No Guidance.
<b>46C.3</b>	No Guidance.
<b>46C.4</b>	No Guidance.
<b>46C.5</b>	No Guidance.
<b>46C.6</b>	No Guidance.
<b>46C.7</b>	No Guidance.
<b>46C.8</b>	No Guidance.
<b>46C.9</b>	No Guidance.
<b>46C.10</b>	No Guidance.
<b>46C.11</b>	No Guidance.
<b>46ACC.1</b>	None.
<b>46VAR.1</b>	None.

<b>R691-2</b>	<b>Aircraft Operations</b>
<b>47</b>	<b>Other Training - Dangerous Goods Training</b>
<b>MR</b>	<b>47B, 47C.1</b>
<b>Guidance Material</b>	
<b>47B</b>	No Guidance.
<b>47C.1</b>	No Guidance.
<b>47ACC.1</b>	None.
<b>47VAR.1</b>	None.

<b>R691-2</b>	<b>Aircraft Operations</b>
<b>48</b>	<b>Flight crew – Emergency and Safety Equipment Training</b>
<b>MR</b>	<b>48B, 48C.1, 48C.2, 48C.3</b>
<b>Guidance Material</b>	
<b>48B</b>	No Guidance.
<b>48C.1</b>	No Guidance.
<b>48C.2</b>	No Guidance.
<b>48C.3</b>	No Guidance.
<b>48ACC.1</b>	None.
<b>48VAR.1</b>	None.

<b>R691-2</b>	<b>Aircraft Operations</b>
<b>49</b>	<b>Reserved</b>

<b>R691-2</b>	<b>Aircraft Operations</b>
<b>50</b>	<b>Reserved</b>

<b>R691-2</b>	<b>Aircraft Operations</b>
<b>51</b>	<b>Role specific training – Control Guarding</b>
<b>MR</b>	<b>51B, 51C.1, 51C.2.</b>
<b>Guidance Material</b>	
<b>51B</b>	No Guidance.
<b>51C.1</b>	No Guidance.
<b>51C.2</b>	No Guidance.
<b>51ACC.1</b>	None.
<b>51VAR.1</b>	None.

<b>R691-2</b>	<b>Aircraft Operations</b>
<b>52</b>	<b>Cabin Crew Members - Training</b>
<b>MR</b>	<b>52B, 52C.1, 52C.2, 52C.3, 52C.4, 52C.5, 52C.6, 52C.7.</b>
<b>Guidance Material</b>	
<b>52B</b>	No Guidance.
<b>52C.1</b>	No Guidance.
<b>52C.2</b>	No Guidance.
<b>52C.3</b>	No Guidance.
<b>52C.4</b>	No Guidance.
<b>52C.5</b>	No Guidance.
<b>52C.6</b>	No Guidance.
<b>52C.7</b>	No Guidance.
<b>51ACC.1</b>	None.
<b>51VAR.1</b>	None.

<b>R691-2</b>	<b>Aircraft Operations</b>
<b>53</b>	<b>Use of Oxygen</b>
<b>MR</b>	<b>53B, 53C.1, 53C.2, 53C.3, 53C.4, 53C.5.</b>
<b>Guidance Material</b>	
<b>53B</b>	No Guidance.
<b>53C.1</b>	No Guidance.
<b>53C.2</b>	No Guidance.
<b>53C.3</b>	No Guidance.
<b>53C.4</b>	No Guidance.
<b>53C.5</b>	No Guidance.
<b>53ACC.1</b>	None.
<b>53VAR.1</b>	None.

<b>R691-2</b>	<b>Aircraft Operations</b>
<b>54</b>	<b>Aeroplane De-Ice and Anti-Ice</b>
<b>MR</b>	<b>54B, 54C.1, 54C.2, 54C.3.</b>
<b>Guidance Material</b>	
<b>54B</b>	No Guidance.
<b>54C.1</b>	No Guidance.
<b>54C.2</b>	No Guidance.
<b>54C.3</b>	No Guidance.
<b>54ACC.1</b>	None.
<b>54VAR.1</b>	None.

<b>R691-3</b>	<b>Support Operations</b>
<b>1</b>	<b>Passenger Check-In</b>
<b>MR</b>	<b>1B, 1C.1</b>
<b>Guidance Material</b>	
<b>1B</b>	No Guidance.
<b>1C.1</b>	No Guidance.
<b>1ACC.1</b>	None.
<b>1VAR.1</b>	None.

<b>R691-3</b>	<b>Support Operations</b>
<b>2</b>	<b>Passenger Holding Areas</b>
<b>MR</b>	<b>2B, 2C.1</b>
<b>Guidance Material</b>	
<b>2B</b>	No Guidance.
<b>2C.1</b>	No Guidance.
<b>2ACC.1</b>	None.
<b>2VAR.1</b>	None.

<b>R691-3</b>	<b>Support Operations</b>
<b>3</b>	<b>Alcohol and Drugs</b>
<b>MR</b>	<b>3B, 3C.1, 3C.1</b>
<b>Guidance Material</b>	
<b>3B</b>	No Guidance.
<b>3C.1</b>	No Guidance.
<b>3C.2</b>	No Guidance.
<b>3ACC.1</b>	None.
<b>3VAR.1</b>	None.

<b>R691-3</b>	<b>Support Operations</b>
<b>4</b>	<b>Passenger and Baggage Weights</b>
<b>MR</b>	<b>4B, 4C.1, 4C.2</b>
<b>Guidance Material</b>	
<b>4B</b>	No Guidance.
<b>4C.1</b>	No Guidance.
<b>4C.2</b>	No Guidance.
<b>4ACC.1</b>	None.
<b>4VAR.1</b>	None.

<b>R691-3</b>	<b>Support Operations</b>
<b>5</b>	<b>Reserved</b>

<b>R691-3</b>	<b>Support Operations</b>
<b>6</b>	<b>Reserved</b>

<b>R691-3</b>	<b>Support Operations</b>
<b>7</b>	<b>Passenger Briefing</b>
<b>MR</b>	<b>7B, 7C.1, 7C.2, 7C.3, 7C.4, 7C.5, 7C.6, 7C.7</b>
<b>Guidance Material</b>	
<b>7B</b>	No Guidance.
<b>7C.1</b>	No Guidance.
<b>7C.2</b>	No Guidance.
<b>7C.3</b>	The safety briefing for the type aircraft to be flown should be given prior to the passenger's first flight of the day even if this is less than 24 hours since the last briefing.
<b>7C.4</b>	No Guidance.
<b>7C.5</b>	No Guidance.
<b>7C.6</b>	7C.6.6 Proper use of seat belts should be included in the passenger briefing in addition to when they must be worn.  7C.6.7 Where Personal Electronic Devices are allowed to be carried, guidance on their use and stowage should be included.  7C.6.14 The recognized brace position for Aircraft is based on Transport Canada, FAA, EASA research and has been confirmed by UK CAA Safety Research Committee, and Aircraft OEM.
<b>7C.7</b>	No Guidance.
<b>7ACC.1</b>	None.
<b>7VAR.1</b>	None.

<b>R691-3</b>	<b>Support Operations</b>
<b>8</b>	<b>Cargo - Weighing and Documentation</b>
<b>MR</b>	<b>8B, 8C.1, 8C.2, 8C.3</b>
<b>Guidance Material</b>	
<b>8B</b>	No Guidance.
<b>8C.1</b>	No Guidance.
<b>8C.2</b>	No Guidance.
<b>8C.3</b>	No Guidance.
<b>8ACC.1</b>	None.
<b>8VAR.1</b>	None.

<b>R691-3</b>	<b>Support Operations</b>
<b>9</b>	<b>Cargo – Dangerous goods</b>
<b>MR</b>	<b>9B, 9C.1, 9C.2, 9C.3, 9C.4</b>
<b>Guidance Material</b>	
<b>9B</b>	No Guidance.
<b>9C.1</b>	No Guidance.
<b>9C.4</b>	No Guidance.
<b>9C.4</b>	No Guidance.
<b>9C.4</b>	Additional local procedures may also be in place for Portable Electronic Devices (PED), etc.
<b>9ACC.1</b>	None.
<b>9VAR.1</b>	None.

<b>R691-3</b>	<b>Support Operations</b>
<b>10</b>	<b>Manifests</b>
<b>MR</b>	<b>10B, 10C.1, 10C.2, 10C.3, 10C.4</b>
<b>Guidance Material</b>	
<b>10B</b>	No Guidance.
<b>10C.1</b>	Manifests should also list: <ul style="list-style-type: none"> <li>• Date of Flight.</li> <li>• Destination.</li> <li>• Authorized Dangerous Goods/Hazardous Materials.</li> </ul>
<b>10C.2</b>	Pilots and/or designated personnel should check actual passenger names against the original booking to verify that only authorized passengers are carried.
<b>10C.3</b>	No Guidance.
<b>10C.4</b>	No Guidance.
<b>10ACC.1</b>	None.
<b>10VAR.1</b>	None.

<b>R691-3</b>	<b>Support Operations</b>
<b>11</b>	<b>Reserved</b>

<b>R691-3</b>	<b>Support Operations</b>
<b>12</b>	<b>Reserved</b>

<b>R691-3</b>	<b>Support Operations</b>
<b>13</b>	<b>Reserved</b>

<b>R691-3</b>	<b>Support Operations</b>
<b>14</b>	<b>Reserved</b>

<b>R691-3</b>	<b>Support Operations</b>
<b>15</b>	<b>Reserved</b>

<b>R691-3</b>	<b>Support Operations</b>
<b>16</b>	<b>Reserved</b>

<b>R691-3</b>	<b>Support Operations</b>
<b>17</b>	<b>Aerodrome - passenger control</b>
<b>MR</b>	<b>17B, 17C.1</b>
<b>Guidance Material</b>	
<b>17B</b>	No Guidance.
<b>17C.1</b>	No Guidance.
<b>17ACC.1</b>	None.
<b>17VAR.1</b>	None.

\*\*\*Restricted\*\*\*

<b>R691-3</b>	<b>Support Operations</b>
<b>18</b>	<b>Refuelling with passengers embarking on board, or disembarking</b>
<b>MR</b>	<b>18B, 18C.1, 18C.2, 18C.3, 18C.4</b>
<b>Guidance Material</b>	
<b>18B</b>	No Guidance.
<b>18C.1</b>	No Guidance.
<b>18C.2</b>	No Guidance.
<b>18C.3</b>	No Guidance.
<b>18C.4</b>	No Guidance.
<b>18ACC.1</b>	None.
<b>18VAR.1</b>	None.

<b>R691-3</b>	<b>Support Operations</b>
<b>19</b>	<b>Ground Operations Staff – Training and Competence</b>
<b>MR</b>	<b>19B, 19C.1, 19C.2, 19C.3, 19C.4, 19C.5, 19C.6</b>
<b>Guidance Material</b>	
<b>19B</b>	No Guidance.
<b>19C.1</b>	No Guidance.
<b>19C.2</b>	No Guidance.
<b>19C.3</b>	No Guidance.
<b>19C.4</b>	No Guidance.
<b>19C.5</b>	No Guidance.
<b>19C.6</b>	No Guidance.
<b>19ACC.1</b>	None.
<b>19VAR.1</b>	None.

<b>R690-4</b>	<b>Engineering</b>
<b>1</b>	<b>Basic Principles</b>
<b>MR</b>	<b>1B, 1C.1, 1C.2, 1C.3, 1C.4, 1C.5</b>
<b>Guidance Material</b>	
<b>1B</b>	No Guidance.
<b>1C.1</b>	No Guidance.
<b>1C.2</b>	No Guidance.
<b>1C.3</b>	<p>The AMO should provide relevant or detailed maintenance records of all maintenance performed to the operator. The maintenance records belong to the aircraft and the operator; not the AMO. See 691-4, 6C.6.</p> <p>Contractual requirements should be specified in a separate document that details the activities and obligations of the contractor in the performance of the activity.</p> <p>Quality Assurance/Compliance processes should cover all the activities defined in the MCM or equivalent document including contracted services:</p> <p>Short-term tasks (e.g., aircraft repair, a Non-Destructive Test (NDT) inspection or an aircraft weighing), an appropriate level of oversight should be performed.</p> <p>The processes should determine that the contractor is suitably approved and has the required certification for the task.</p> <p>The safety and general HSSE expectations of the contractor should be addressed by the operator</p>
<b>1C.4</b>	The operator should be responsible for providing the AMP to the AMO. The AMO does not own or control the AMP.
<b>1C.5</b>	No Guidance.
<b>1ACC.1</b>	None.
<b>1VAR.1</b>	None.



<b>R691-4</b>	<b>Engineering</b>
<b>2</b>	<b>Continuing Airworthiness - Management</b>
<b>MR</b>	<b>2B, 2C.1, 2C.2, 2C.3, 2C.4, 2C.5, 2C.6, 2C.7, 2C.8, 2C.9, 2C.10, 2C.11</b>
<b>Guidance Material</b>	
<b>2B</b>	The operators should employ in-house, or contract, competent personnel to manage the Continuing Airworthiness (CA) function. The CA process should be commensurate with the size and complexity of the operation.
<b>2C.1</b>	AMP is approved by NAA where applicable and should be type-specific and should include the OEM minimum requirements.
<b>2C.2</b>	Subscriptions with OEMs, or similar processes, to receive revisions to all technical data and information related to the maintenance of the aircraft or its components should be in place.
<b>2C.3</b>	No Guidance.
<b>2C.4</b>	MEL should be NAA approved. If no MEL is in place, all defects should be cleared before the flight. See 2C.5.
<b>2C.5</b>	See Section 6, Continuing Airworthiness – Aircraft Maintenance Records. See 2C.4.
<b>2C.6</b>	See Section 10, Maintenance Management – Maintenance Planning.
<b>2C.7</b>	No Guidance.
<b>2C.8</b>	See 691-4, 6C.7. 8.
<b>2C.9</b>	See Section 6, Continuing Airworthiness – Aircraft Maintenance Records.
<b>2C.10</b>	A system of control should be in place, which allows only parts, meeting the aircraft maintenance programme, to be fitted to company operated aircraft by AMO.
<b>2C.11</b>	The documented continuing airworthiness and maintenance procedures within an operator may be known as the Maintenance Management Manual, (MMM), Continuing Airworthiness Manual (CAM) or the Maintenance Control Manual (MCM) and contained within the MMM/CAM/MCM may be the processes which produce the AMP.
<b>2ACC.1</b>	None.
<b>2VAR.1</b>	None.

<b>R691-4</b>	<b>Engineering</b>
<b>3</b>	<b>Continuing Airworthiness - Approved Maintenance Programme</b>
<b>MR</b>	<b>3B, 3C.1, 3C.2, 3C.3</b>
<b>Guidance Material</b>	
<b>3B</b>	Management of the Approved Maintenance Programme (AMP) could be in-house or contracted to a Continuing Airworthiness Management Organisation (CAMO).
<b>3C.1</b>	None.
<b>3C.2</b>	None.
<b>3C.3</b>	There should be documented procedures for the review interval and data criteria for the AMP effectiveness review.
<b>3ACC.1</b>	None.
<b>3VAR.1</b>	None.

<b>R691-4</b>	<b>Engineering</b>
<b>4</b>	<b>Continuing Airworthiness - Maintenance Data</b>
<b>MR</b>	<b>4B, 4C.1, 4C.2, 4C.3, 4C.4, 4C.5, 4C.6</b>
<b>Guidance Material</b>	
<b>4B</b>	The relevant Shell Technical Authority, (T/A1) can require specific, company requested, Service Bulletins and Airworthiness Directives be complied with. See 4VAR.1
<b>4C.1</b>	Compliance with Airworthiness Directives (AD), Alert Service Bulletins (ASB), Service Bulletins (SB) and other similar requirements, should include the implementation of any actions that are considered necessary and within the specified timescale.
<b>4C.2</b>	A documented review process, or similar, for all incoming directives and bulletins should be maintained.
<b>4C.3</b>	Decisions on SB that the company chooses not to embody should be tracked. An SB is mandatory when accompanied by an AD.
<b>4C.4</b>	This compliance list should also indicate the most current revision of the relevant AD, ASB, SB, etc., regardless of whether any physical action is required.
<b>4C.5</b>	No Guidance.
<b>4C.6</b>	No Guidance.
<b>4ACC.1</b>	None.
<b>4VAR.1</b>	The relevant Shell Technical Authority - Air Transport, (TA/1), can require specific, company requested, Service Bulletins and Airworthiness Directives to be complied with. to meet 691-4, 4B, Continuing Airworthiness - Maintenance Data.

<b>R691-4</b>	<b>Engineering</b>
<b>5</b>	<b>Continuing airworthiness – minimum equipment list/minimum departure standard</b>
<b>MR</b>	<b>5B, 5C.1, 5C.2, 5C.3, 5C.4, 5C.5</b>
<b>Guidance Material</b>	
<b>5B</b>	If no MEL is in place, then all systems must be serviceable for flight. See 691-5, Aircraft and Equipment, Section 1, Equipment Serviceability.
<b>5C.1</b>	No Guidance
<b>5C.2</b>	A Non-Essential Furnishings (NEF) list, or Configuration Deviation List (CDL) may also be separate documents.
<b>5C.3</b>	No Guidance
<b>5C.4</b>	No Guidance
<b>5C.5</b>	All recurring defects should be recorded, and the relevant maintenance organisation should monitor and manage these.
<b>5ACC.1</b>	None.
<b>5VAR.1</b>	None.

<b>R691-4</b>	<b>Engineering</b>
<b>6</b>	<b>Continuing airworthiness – aircraft maintenance records</b>
<b>MR</b>	<b>6B, 6C.1, 6C.2, 6C.3, 6C.4, 6C.5, 6C.6 6C.7, 6C.8</b>
<b>Guidance Material</b>	
<b>6B</b>	Sufficient competent staff should be employed to maintain the record-keeping process. Staff numbers and records should be appropriate to the size and complexity of the company. See also 691-4, 2C.11 Procedures are developed to be included in a manual approved by the NAA, to identify the numbers, duties and responsibilities, qualifications and competence of the staff employed.
<b>6C.1</b>	Airworthiness Review Certificates (ARC), if applicable, may be issued, using appropriate processes.
<b>6C.2</b>	No Guidance
<b>6C.3</b>	No Guidance
<b>6C.4</b>	No Guidance
<b>6C.5</b>	No Guidance
<b>6C.6</b>	The system should show the receipt and management of all completed maintenance paperwork including work orders, work packages, aircraft technical log entries and component serviceability data and should allow an auditable record. Records may be maintained and kept by a subcontracted organisation on behalf of the Continuing Airworthiness Management Organisation (CAMO), which remains the owner of these documents. See 691-4, 1C.1.
<b>6C.7</b>	Internal Quality Control (QC) procedures should review that all records of maintenance performed by the Aircraft Maintenance Organisation (AMO) are complete and the aircraft is appropriately released to service. See 691-4, 2C.8 and 8C.8.
<b>6C.8</b>	No Guidance.
<b>6ACC.1</b>	None.
<b>6VAR.1</b>	None.

<b>R691-4</b>	<b>Engineering</b>
<b>7</b>	<b>Continuing airworthiness – reliability programme</b>
<b>MR</b>	<b>7B, 7C.1, 7C.2, 7C.3</b>
<b>Guidance Material</b>	
<b>7B</b>	Reliability Programmes as detailed, should be in place for operators operating large numbers of aircraft. Smaller aircraft operators may monitor reliability by a simple Excel spreadsheet, and this should be a “fit for purpose” process.
<b>7C.1</b>	As above.
<b>7C.2</b>	For aircraft operators operating General Aviation type aircraft, this information may not be required, asked for, or acted upon, by the OEM/TC/STC holder and it is not practical to track it.
<b>7C.3</b>	As above.
<b>7ACC.1</b>	None.
<b>7VAR.1</b>	None.

<b>R691-4</b>	<b>Engineering</b>
<b>8</b>	<b>Continuing airworthiness – workplace</b>
<b>MR</b>	<b>8B, 8C.1, 8C.2</b>
<b>Guidance Material</b>	
<b>8B</b>	No Guidance.
<b>8C.1</b>	No Guidance.
<b>8C.2</b>	See also 691-4, 6C.7.
<b>8ACC.1</b>	None.
<b>8VAR.1</b>	None.

<b>R691-4</b>	<b>Engineering</b>
<b>9</b>	<b>Maintenance Management - Aircraft Maintenance Organization Procedures</b>
<b>MR</b>	<b>9B, 9C.1, 9C.2, 9C.3</b>
<b>Guidance Material</b>	
<b>9B</b>	No Guidance
<b>9C.1</b>	The manual could also be called a Company Maintenance Manual (CMM), and the contents are generally defined by the local NAA.
<b>9C.2</b>	See 691-1, Section 11. Continuous Improvement – Assurance. The company assurance programme should cover all contracted services and the surveillance of the contracted maintenance should be appropriate for the scale and scope of work.
<b>9C.3</b>	Contracted Maintenance could cover: Lifejackets; Non-Destructive testing (NDT); Aircraft weighing; Aircraft Painting; Large maintenance checks. See also 691-4, 1C.3.
<b>9ACC.1</b>	None.
<b>9VAR.1</b>	None.

<b>R691-4</b>	<b>Engineering</b>
<b>10</b>	<b>Maintenance Management - Maintenance Planning</b>
<b>MR</b>	<b>10B, 10C.1, 10C.2</b>
<b>Guidance Material</b>	
<b>10B</b>	Processes are appropriate to the size and complexity of the company.
<b>10C.1</b>	No Guidance.
<b>10C.2</b>	See also 691-4, 1C.4.
<b>10ACC.1</b>	None.
<b>10VAR.1</b>	None.

<b>R691-4</b>	<b>Engineering</b>
<b>11</b>	<b>Maintenance Management - Maintenance Records</b>
<b>MR</b>	<b>11B, 11C.1, 11C.2, 11C.3, 11C.4, 11C.5, 11C.6, 11C.7, 11C.8, 11C.9</b>
<b>Guidance Material</b>	
<b>11B</b>	Retention and transfer of the records should be such that, when required, the status of the aircraft and its components can be readily established.
<b>11C.1</b>	Work cards, worksheets, etc. should contain and make clear references to the maintenance data required for the task(s) and should be protected against unauthorised alteration
<b>11C.2</b>	No Guidance.
<b>11C.3</b>	Maintenance records should also clearly identify any Independent Inspection requirements that may require certification. See 11C.5, and Section 13. Maintenance Management - Independent Inspections.
<b>11C.4</b>	SWS should be sub-divided into clear stages allowing a record of accomplishment at each stage in the process. The SWS should seek to minimise the risk of maintenance errors by including or identifying lessons learned from previous maintenance error investigations. See 11VAR.1.
<b>11C.5</b>	See Section 13. Maintenance Management - Independent Inspections.
<b>11C.6</b>	No Guidance.
<b>11C.7</b>	No Guidance.
<b>11C.8</b>	No Guidance.
<b>11C.9</b>	No Guidance.
<b>11ACC.1</b>	None.
<b>11VAR.1</b>	The relevant Shell Technical Authority – Air Transport, (TA/1), may vary MR11C.4, Staged Worksheets (SWS), for limited exposure contracts.

<b>R691-4</b>	<b>Engineering</b>
<b>12</b>	<b>Maintenance Management - Foreign Object Debris Checks</b>
<b>MR</b>	<b>12B, 12C.1, 12C.2, 12C.3, 12C.4, 12C.5</b>
<b>Guidance Material</b>	
<b>12B</b>	Foreign Object Debris (FOD) is defined as items that may cause damage to aircraft or its components and any substances or items that have been allowed to invade the aircraft or aircraft components.
<b>12C.1</b>	No Guidance.
<b>12C.2</b>	No Guidance.
<b>12C.3</b>	No Guidance.
<b>12C.4</b>	Leak checks should be recorded and certified appropriately.
<b>12C.5</b>	FOD walks, FOD boxes and controls around aircraft platforms and tool control.
<b>12ACC.1</b>	None.
<b>12VAR.1</b>	None.

691-4	Engineering
13	Maintenance Management – Independent Inspections
MR	13B, 13C.1, 13C.2, 13C.3, 13C.4, 13C.5, 13C.7, 13C.8, 13ACC.1
Guidance Material	
<b>13B</b>	The principle of additional inspections on Critical Maintenance Tasks (CMT) on aircraft systems is well understood and accepted. National Aviation Authorities (NAA) have given these additional inspections different titles: Duplicate Inspections by the UK CAA; Independent Inspections by CASA and EASA; Required Inspection Items (RII) by the FAA; and Dual Inspection or Independent Check by Transport Canada.
<b>13C.1</b>	The scope and content of duplicate inspections, and how the recording and certification of duplicate inspections is carried out as part aircraft's maintenance records should be defined.
<b>13C.2</b>	The content and scope of a duplicate inspection check should include, where applicable. <ul style="list-style-type: none"> <li>• Correct assembly and locking of all parts that were disconnected or disturbed.</li> <li>• Full and free movement of the system over the complete range.</li> <li>• Correctly tensioned cables with correct clearances at secondary stops.</li> <li>• Operation of the control system to ensure operation in the correct sense.</li> <li>• Separate system checks if the control system is duplicated to provide redundancy; and,</li> <li>• That, where different control systems are interconnected such that, they affect each other, all interactions are checked through the full range of movement.</li> </ul>
<b>13C.3</b>	The training, competence and authorisation procedures should demonstrate that: <ul style="list-style-type: none"> <li>• The authorised signatories for duplicate inspections are trained and have gained experience on the specific control systems being inspected.</li> <li>• That any staff authorised as a "second signatory" are suitably qualified by the company to carry out the inspection.</li> <li>• That the training and authorisation process can be applied to flight crew when operational requirements exist, such as when away from normal maintenance facilities, and should only cover "limited and simple tasks" such as when minor adjustment of a control is required.</li> </ul>
<b>13C.4</b>	In smaller Aircraft operators, operating General Aviation type aircraft, this information may not be required, asked for, or acted upon, by the OEM/TC/STC holder and it may not be practical to track or supply the information.
<b>13C.5</b>	Secondary Inspections called up by the operator where maintenance tasks have been identified as prone to error by the operator, may not require the certifying staff to have Independent Inspection approvals.
<b>13C.7</b>	No Guidance.
<b>13C.8</b>	Single engineer independent inspection may be permitted by the relevant NAA at normal operating bases. As example of a single person independent inspection is where an engineer signs both inspections, the second after having a break. This prohibition does not preclude innovative processes that may be employed, such as remote inspections, and approved, for remote locations and part of processes aircraft operators processes to recover unserviceable aircraft. These instances should be clearly detailed and as an example, the aircraft may be required to return without passengers.
<b>13ACC.1</b>	None.
<b>13VAR.1</b>	None.

R691-4	Engineering
14	Maintenance Management - Release to Service
MR	14B, 14C.1, 14C.2, 14C.3, 14C.4, 14C.5
Guidance Material	
14B	No Guidance.
14C.1	No Guidance.
14C.2	The procedures should require that no aircraft be "Released to Service" unless they are: <ul style="list-style-type: none"> <li>• Airworthy.</li> <li>• Appropriately equipped, configured, and maintained for their intended use; and,</li> <li>• Have a valid Certificate of Airworthiness (C of A), Airworthiness Review Certificate (ARC, if applicable).</li> </ul>
14C.3	No Guidance.
14C.4	No Guidance.
14C.5	Remote locations could include offshore installations.
14ACC.1	None.
14VAR.1	None.

R691-4	Engineering
15	Maintenance Observation Programme
MR	15B, 15C.1, 15C.2, 15C.3, 15C.4
Guidance Material	
15B	General description of Maintenance Observation Programme (MOP) process: The MOP programme involves an additional review of any work process within a maintenance organisation and is considered complementary to the normal supervision activity. It is expected that this activity should be, or is, performed by peers who understand the task at hand and/or have experience with it. The MOP programme should contain the following elements: <ul style="list-style-type: none"> <li>• <b>Aim:</b> Identify and mitigate the causal factors that encourage staff to ignore or work round existing procedures and systems, but also to learn from all operations, including good practices.</li> <li>• <b>Process:</b> Describe the MOP processes, procedures, and forms in use and,</li> <li>• <b>System Review:</b> Determine effectiveness with the opportunity to improve where considered necessary.</li> </ul> See 15VAR.1.
15C.1	The MOP programme should involve maintenance personnel at all levels. Individual engagement, communication and buy-in should be considered when the MOP programme is launched and thereafter.
15C.2	"Regular Intervals" typically should mean bi-monthly or more frequently and cover all locations where maintenance is performed.
15C.3	All plans should be tracked to closure.
15C.4	No Guidance.
15ACC.1	None.
15VAR.1	The relevant Shell Technical Authority – Air Transport, (TA/1), may vary requirement MR15B, Maintenance Observation Programme (MOP), for limited exposure contracts.

<b>R691-4</b>	<b>Engineering</b>
<b>16</b>	<b>Quality (Compliance Monitoring) System</b>
<b>MR</b>	<b>16B, 16C.1, 16C.2</b>
<b>Guidance Material</b>	
<b>16B</b>	The process should be appropriate to the size and complexity of the company.
<b>16C.1</b>	The process should be appropriate to the size and complexity of the company.
<b>16C.2</b>	No Guidance.
<b>16ACC.1</b>	None.
<b>16VAR.1</b>	None.

<b>R691-4</b>	<b>Engineering</b>
<b>17</b>	<b>Occurrence Reporting System</b>
<b>MR</b>	<b>17B, 17C.1, 17C.2</b>
<b>Guidance Material</b>	
<b>17B</b>	The process should be appropriate to the size and complexity of the company.
<b>17C.1</b>	No Guidance.
<b>17C.2</b>	No Guidance.
<b>17ACC.1</b>	None.
<b>17VAR.1</b>	None.

<b>R691-4</b>	<b>Engineering</b>
<b>18</b>	<b>Maintenance Check Flights</b>
<b>MR</b>	<b>18B, 18C.1, 18C.2, 18C.3</b>
<b>Guidance Material</b>	
<b>18B</b>	Maintenance Check Flights (MCF) guidance should be documented in both maintenance and operations procedures,
<b>18C.1</b>	No Guidance.
<b>18C.2</b>	No Guidance.
<b>18C.3</b>	The need for additional crew and/or task specialists should be identified before each intended maintenance check flight, and accounted for in the Risk Assessment, taking into consideration the expected workload, the type of maintenance completed and any risk assessment.
<b>18C.4</b>	See 18C.3.
<b>18ACC.1</b>	None.
<b>18VAR.1</b>	None.

<b>R691-4</b>	<b>Engineering</b>
<b>19</b>	<b>Maintenance Facilities - General</b>
<b>MR</b>	<b>19B, 19C.1, 19C.2, 19C.3, 19C.4, 19C.5</b>
<b>Guidance Material</b>	
<b>19B</b>	Line Maintenance may be performed without a hangar.
<b>19C.1</b>	No Guidance.
<b>19C.2</b>	Aircraft component workshops should be large enough to accommodate the components planned to be maintained. See 19VAR.1
<b>19C.3</b>	See Section 8. Continuing Airworthiness – Workplace.
<b>19C.4</b>	Protection from inclement weather means the hangar or component workshop structures should be to a standard against extreme temperatures, precipitation, dust/sand, etc. but also against noise, insects, wildlife, etc.
<b>19C.5</b>	See Section 12, Maintenance management - Foreign Object Debris Checks.
<b>19ACC.1</b>	None.
<b>19VAR.1</b>	The relevant Shell Technical Authority (TA/1) may vary requirement MR19C.2, Component Workshops, for limited exposure contracts.



<b>R691-4</b>	<b>Engineering</b>
<b>20</b>	<b>Maintenance Facilities - Working Conditions</b>
<b>MR</b>	<b>20B, 20C.1, 20C.2, 20C.3, 20C.4, 20C.5 &amp; 20ACC.1</b>
<b>Guidance Material</b>	
<b>20B</b>	No Guidance.
<b>20C.1</b>	No Guidance.
<b>20C.2</b>	PPE requirements should meet local regulatory, company and aircraft OEM requirements, will typically address the use of: <ul style="list-style-type: none"> <li>• Eye, Hand, and Foot Protection.</li> <li>• Head Protection, in conjunction with Working at Height (WAH) requirements.</li> <li>• Clothing policy.</li> </ul>
<b>20C.3</b>	Working At Height (WAH) is defined in the IOGP Life Saving Rules as being above 1.8 Meters, or 6 Feet. The WAH policy, including any associated Risk Assessments, should also meet Shell local regulatory requirements, and typically should cover: <ul style="list-style-type: none"> <li>• WAH, without a work stand during line operations/ramp maintenance using the designed and installed maintenance access steps and platforms on the aircraft for documented, short duration, simple tasks.</li> <li>• WAH in the hangar or similar maintenance facility, using suitable Aircraft Docking Stations.</li> <li>• WAH at offsite locations, such as emergency landing sites, remote helipads, and helidecks.</li> </ul> <p>Whilst operating for Shell detailed WAH guidance is available via the local Shell Technical Authority (TA/1), particularly if the aircraft lands at an offsite location (helideck, remote location) and requires maintenance.</p>
<b>20C.4</b>	See Section 19: Maintenance Facilities – General.
<b>20C.5</b>	Guidance on the use of Mobile Phones and other PED, should be provided.
<b>20ACC.1</b>	None.
<b>20VAR.1</b>	None.

<b>R691-4</b>	<b>Engineering</b>
<b>21</b>	<b>Aircraft Components/Material Management – Equipment and Tools</b>
<b>MR</b>	<b>20B, 20C.1, 20C.2, 20C.3, 20C.4, 20C.5</b>
<b>Guidance Material</b>	
<b>21B</b>	No Guidance.
<b>21C.1</b>	<p>Only the special tooling or test equipment specified by the aircraft or engine manufacturer, or its equivalent, should be used to perform maintenance on an aircraft, unless the use of alternative tooling has been agreed with the relevant Shell Technical Authority – Air Transport, (TA/1), See 21VAR.1.</p> <p>Privately Owned Tooling is allowed, other than the above, if the following is in place:</p> <ul style="list-style-type: none"> <li>• Tools kits should have a contents list and any unserviceable tools are identified on this list.</li> <li>• Tool kits should be arranged so it is immediately obvious if a tool is missing at the end of a duty period.</li> <li>• Tools should be marked with a unique identifier and that can be traced to their owner and/or tool kit.</li> </ul>
<b>21C.2</b>	<p>All equipment used in the performance of maintenance should be inspected prior to use on aircraft to ensure it is serviceable and free from foreign objects.</p> <p>The control system should include the following control processes:</p> <ul style="list-style-type: none"> <li>• Tool kits should have a contents list and any unserviceable tools are identified on this list.</li> <li>• Tool kits should be arranged so it is immediately obvious if a tool is missing at the end of a duty period.</li> </ul>
<b>21C.3</b>	The control system should include the tools and specialised kits located in workshops.
<b>21C.4</b>	Tool calibration records should be retained in accordance with local requirements.
<b>21C.5</b>	No Guidance.
<b>21C.6</b>	No Guidance.
<b>21ACC.1</b>	None.
<b>21VAR.1</b>	The relevant Shell Technical Authority – Air Transport, (TA/1), may vary MR21C.1, Company Owned Tooling, for limited exposure contracts, operations in remote locations, and small Aircraft operators.

<b>R691-4</b>	<b>Engineering</b>
<b>22</b>	<b>Aircraft Components/Material Management – Bonded, Quarantine, and Inflammables storage areas</b>
<b>MR</b>	<b>22B, 22C.1, 22C.2, 22C.3, 22C.4, 22C.5, 22C.6, 22C.7, 22C.8, 22C.9</b>
<b>Guidance Material</b>	
<b>22B</b>	Procedures for all aspects of the stores, and a records/control programme should be in place.
<b>22C.1</b>	A demonstrated control process for any components, which due to their size, are held in a location outside the secure storage facility should be in place.
<b>22C.2</b>	No Guidance.
<b>22C.3</b>	No Guidance.
<b>22C.4</b>	No Guidance.
<b>22C.5</b>	No Guidance.
<b>22C.6</b>	A register for all items in the quarantine area should be maintained.
<b>22C.7</b>	No Guidance.
<b>22C.8</b>	No Guidance.
<b>22C.9</b>	No Guidance.
<b>22ACC.1</b>	None.
<b>22VAR.1</b>	None.

<b>R691-4</b>	<b>Engineering</b>	
<b>23</b>	<b>Aircraft Components/Material Management – Responsibilities of stores personnel</b>	
<b>MR</b>	<b>23B, 23C.1, 23C.2</b>	
<b>Guidance Material</b>		
<b>23B</b>	No Guidance.	
<b>23C.1</b>	Training should cover the inspection and acceptance of the relevant parts as per the operators "Goods Inward" or "Receiving Inspection" processes.	
<b>23C.2</b>	By name or company identifier of the inspector. There should be full traceability of each item to its source provider.	
<b>23ACC.1</b>	None.	
<b>23VAR.1</b>	None.	

<b>R691-4</b>	<b>Engineering</b>	
<b>24</b>	<b>Maintenance - Aircraft Fuel Checks</b>	
<b>MR</b>	<b>24B, 24C.1, 24C.2, 24C.3, 24C.4, 24C.5</b>	
<b>Guidance Material</b>		
<b>24B</b>	<p>The Aircraft Operator should maintain quality assurance over and test all Bulk Storage and Delivery Systems in accordance with documented procedures. These procedures could reference the following:</p> <ul style="list-style-type: none"> <li>• The Shell Aviation "Shell Airport Operations Manual" (SAOM)</li> <li>• "Shell Aviation Quality Assurance Manual" (SAQSM), or an equivalent international standard, such as the Joint Inspection Group (JIG) requirements.</li> </ul>	<p>The relevant Shell Technical Authority - Air Transport (TA/1) agrees and accepts the processes if the Aircraft Operator owns or manages the fuel and/or installation.</p> <p><b><u>This variation is managed and recorded locally.</u></b></p>
<b>24C.1</b>	No Guidance.	
<b>24C.2</b>	Detailed requirements of where and what aircraft need fuel samples taken. See 24VAR.1.	
<b>24C.3</b>	Sample jars should be sealed and designed such that a "swirl test" can be carried out.	
<b>24C.4</b>	No Guidance.	
<b>24C.5</b>	Sample jars should be stored in compliance with local Health, Safety & Environment (HSE) requirements for the storage of flammable liquids.	
<b>24ACC.1</b>	None.	
<b>24VAR.1</b>	The relevant Shell Technical Authority - Air Transport (TA/1), can vary 24.C.2, Daily Fuel Samples, for limited exposure contracts. To meet this alleviation, Fuel sample requirements are in place such that a comprehensive sample process is in place for the day of every Shell Flight.	

<b>R691-4</b>	<b>Engineering</b>
<b>25</b>	<b>Maintenance Personnel General Requirements – Fatigue Prevention</b>
<b>MR</b>	<b>25B, 25C.1, 25C.2, 25C.3, 25C.4, 25C.5, 25C.6</b>
<b>Guidance Material</b>	
<b>25B</b>	<p>It should be the responsibility of the individual concerned to ensure that he/she does not report for duty or certify if he is genuinely unfit. Issues associated with mental and physical fitness, fatigue, stress, medication, alcohol, and drug use may all have a bearing on "fitness to work."</p> <p>Other than any specific local labor laws, maintenance personnel are not regulated by duty hour limitations. It is incumbent on the management and supervisors of the AMO to locally manage their personnel with due consideration to fatigue and the potential for human factors provoking errors in maintenance.</p>
<b>25C.1</b>	Risk Assessments that allow staff to work extended hours on tasks with a higher risk should be documented.
<b>25C.2</b>	For locations where shifts can be regularly rostered with a heavy maintenance workload to be completed through the night. The bulk of the work should be completed by the staff on duty up to midnight with the residue being completed by a staff covering the period from approximately 2300 to 0700 hrs.
<b>25C.3</b>	<p>With agreement with the relevant Shell Technical Authority – Air Transport (TA1), this requirement can be varied, subject to the following guidance:</p> <ul style="list-style-type: none"> <li>• Operations where personnel are working a back-to-back roster, e.g., a four on/four off working cycle.</li> <li>• At field locations where only basic accommodation is provided, a regular "time on-site, time off-site" routine should be established to ensure maintenance personnel working under these conditions are not in the field for prolonged periods. The minimum acceptable ratio of time on-site to time off-site is 2:1 and the maximum period on-site does not exceed 2 months.</li> <li>• The period spent commuting to and from the operational location should be considered work time as part of a regular "time on-site, time off-site" routine.</li> <li>• See 25VAR.1.</li> </ul>
<b>25C.4</b>	No Guidance.
<b>25C.5</b>	No Guidance.
<b>25C.6</b>	No Guidance.
<b>25ACC.1</b>	None.
<b>25VAR.1</b>	The relevant Shell Technical Authority – Air Transport (TA/1), can vary requirement MR25C.3, Days Off

<b>R691-4</b>	<b>Engineering</b>
<b>26</b>	<b>Maintenance Personnel – Qualifications and Experience</b>
<b>MR</b>	<b>26B, 26C.1, 26C.2, 26C.3, 26C.4, 26C.5, 26C.6.</b>
<b>Guidance Material</b>	
<b>26B</b>	No Guidance.
<b>26C.1</b>	No Guidance.
<b>26C.2</b>	No Guidance.
<b>26C.3</b>	No Guidance.
<b>26C.4</b>	No Guidance.
<b>26C.5</b>	Formal type training should be provided by a suitably approved training organisation, Part 147 Organization etc., not necessarily by the OEM.  Local approvals following “On the Job Training (OJT)” should only cover “limited and simple” tasks.
<b>26C.6</b>	Training records should track: <ul style="list-style-type: none"> <li>• The person's name and, where applicable, personnel National Aviation Authority (NAA) license number and company authorizations.</li> <li>• The dates when training and competency has been successfully completed.</li> <li>• The assessment and relevant training, including the result.</li> <li>• Course certificates for all relevant training; and,</li> <li>• The expiry and renewal dates for the authorizations granted.</li> </ul>
<b>26ACC.1</b>	None.
<b>26VAR.1</b>	None.

<b>R691-4</b>	<b>Engineering</b>
<b>27</b>	<b>Maintenance Personnel – Competence and Training</b>
<b>MR</b>	<b>27B, 27C.1, 27C.2, 27C.3, 27C.4, 27C.5, 27C.6, 27C.7, 27C.8, 27C.9</b>
<b>Guidance Material</b>	
<b>27B</b>	No Guidance.
<b>27C.1</b>	The induction training programme should also cover suitable management training for all managers, supervisors as well as any contractors;
<b>27C.2</b>	No Guidance.
<b>27C.3</b>	No Guidance.
<b>27C.4</b>	No Guidance.
<b>27C.5</b>	Continuation training typically includes: <ul style="list-style-type: none"> <li>• Modification standard of the aircraft and components maintained.</li> <li>• Human factors issues identified by relevant findings from Quality Assurance audits and the Maintenance Observation Process (MOP) process.</li> </ul>
<b>27C.6</b>	Continuing Airworthiness personnel could have certification authorisations, Certificate of Airworthiness Review, ARC review etc.
<b>27C.7</b>	The training programme should provide sufficient knowledge of applicable regulations, standards, procedures, and the operated aircraft types as well as general organisational training on SMS, company procedures and internal systems/programmes linked to aircraft maintenance, any individual roles and job descriptions.
<b>27C.8</b>	Support staff could include stores, ramps, refuellers etc.
<b>27C.9</b>	No Guidance.
<b>27ACC.1</b>	None.
<b>27VAR.1</b>	None.

<b>R691-4</b>	<b>Engineering</b>
<b>28</b>	<b>Reserved for future use</b>

<b>R691-4</b>	<b>Engineering</b>
<b>29</b>	<b>Reserved for future use</b>

<b>R691-4</b>	<b>Engineering</b>
<b>30</b>	<b>Supervision of unlicensed and recently licensed maintenance personnel</b>
<b>MR</b>	<b>30B, 30C.1</b>
<b>Guidance Material</b>	
<b>30B</b>	No Guidance.
<b>30C.1</b>	No Guidance.
<b>30ACC.1</b>	None.
<b>20VAR.1</b>	None.

<b>R691-4</b>	<b>Engineering</b>
<b>31</b>	<b>Reserved</b>

<b>R691-4</b>	<b>Engineering</b>
<b>32</b>	<b>Reserved</b>

<b>R691-4</b>	<b>Engineering</b>
<b>33</b>	<b>Reserved</b>

<b>R691-4</b>	<b>Engineering</b>
<b>34</b>	<b>Reserved</b>

<b>R691-4</b>	<b>Engineering</b>
<b>35</b>	<b>Reserved</b>

<b>R691-4</b>	<b>Engineering</b>
<b>36</b>	<b>Reserved</b>

R691-5		Aircraft and Equipment
1		Equipment Serviceability
MR	1B, 1C.1, 1C.2, 1C.3, 1C.4	
Guidance Material		
1B	If no Minimum Equipment List is in place, all systems must be serviceable for flight.	The Shell Technical Authority — Air Transport (TA/1) demonstrates that additional equipment, that has been requested by, and detailed in contract requirements, is controlled via the Minimum Departure Standard (MDS), or equivalent. <b>This Variation is managed and recorded locally.</b>
1C.1	No Guidance	
1C.2	No Guidance	
1C.3	No Guidance	
1C.4	No Guidance	
1C.5	No Guidance	
1ACC.1	None.	
1VAR.1	None.	

R691-5		Aircraft and Equipment
2		Certification Standard
MR	2B, 2C.1 & 2ACC.1	
Guidance Material		
2B	Refer to Shell Aircraft “Assessed Aircraft Listing.” For Commercial Air Transport (CAT) of Passengers, no aircraft built before year 2000 is acceptable, without TA/0 Acceptance. As part of this review, a demonstration of the full equipment fit (PART691) will be required.  See 2ACC.1., 2VAR.1	
2C.1	Amendment 45 and 31 are Typos to be corrected at the next revision.	
2ACC.1	Shell requirements to meet 2B are to only use Aircraft types assessed as acceptable by Shell Aircraft and are agreed with the relevant Shell Technical Authority - Air Transport (TA/1).	
2VAR.1	The relevant Shell Technical Authority - Air Transport (TA/1), and contracting Business Leader, can apply to the TA/0 for an Exception to use an aircraft built prior to 2000, and may not meet performance requirements, for use in CAT.	

\*\*\*Restricted\*\*\*

<b>R691-5</b>	<b>Aircraft and Equipment</b>
<b>3</b>	<b>Instrument flight rules - equipment</b>
<b>MR</b>	<b>3B, 3C.1</b>
<b>Guidance Material</b>	
<b>3B</b>	See also Shell Aircraft "Assessed Aircraft Listing."
<b>3C.1</b>	No Guidance.
<b>3ACC.1</b>	None.
<b>3VAR.1</b>	None.



R691-5	<b>Aircraft and Equipment</b>
<b>4</b>	<b>Aircraft Automation</b>
<b>MR</b>	<b>4B, 4C.1, 4C.2</b>
<b>Guidance Material</b>	
<b>4B</b>	No Guidance.
<b>4C.1</b>	Aircraft should be capable of coupling heading, altitude, navigation, and approach and be fitted with altitude preselect.
<b>4C.2</b>	No Guidance.
<b>4ACC.1</b>	None.
<b>4VAR.1</b>	None.

R691-5	<b>Aircraft and Equipment</b>
<b>5</b>	<b>Aircraft-Mounted Emergency Locator Transmitters</b>
<b>MR</b>	<b>5B, 5C.1, 5C.2, 5C.3, 5C.4</b>
<b>Guidance Material</b>	
<b>5B</b>	No Guidance.
<b>5C.1</b>	No Guidance.
<b>5C.2</b>	No Guidance.
<b>5C.3</b>	No Guidance.
<b>5C.4</b>	No Guidance.
<b>5ACC.1</b>	None.
<b>5VAR.1</b>	None.

R691-5	<b>Aircraft and Equipment</b>
<b>6</b>	<b>Underwater locator beacon fitted to cockpit voice recorder and flight data recorder</b>
<b>MR</b>	<b>6B, 6C.1, 6C.2</b>
<b>Guidance Material</b>	
<b>6B</b>	Underwater locator beacon fitted to cockpit voice recorder and flight data recorder.
<b>6C.1</b>	No Guidance.
<b>6C.2</b>	No Guidance.
<b>6C.2</b>	No Guidance.
<b>6ACC.1</b>	None.
<b>6VAR.1</b>	None.

<b>R691-5</b>	<b>Aircraft and Equipment</b>
<b>7</b>	<b>Aircraft Terrain Awareness Warning System</b>
<b>MR</b>	<b>7B, 7C.1, 7C.2, 7C.3, 7C.4.</b>
<b>Guidance Material</b>	
<b>7B</b>	No Guidance.
<b>7C.1</b>	No Guidance.
<b>7C.2</b>	No Guidance.
<b>7C.3</b>	No Guidance.
<b>7C.4</b>	No Guidance.
<b>7ACC.1</b>	None.
<b>7VAR.1</b>	None.

<b>R690-5</b>	<b>Helicopter and Equipment</b>
<b>8</b>	<b>Airborne Collision Avoidance Systems</b>
<b>MR</b>	<b>8B, 8C.1, 8C.2, 8C.3</b>
<b>Guidance Material</b>	
<b>8B</b>	No Guidance.
<b>8C.1</b>	No Guidance.
<b>8C.2</b>	See 8VAR.1 and 691-2, Aircraft Operations, Section 7, Airborne Collision Avoidance Systems. TCAS2 may not be required, for limited exposure contracts, if agreed with the relevant Shell Technical Authority – Air Transport, (TA/1), and an acceptable Risk Assessment is in place.
<b>8C.3</b>	No Guidance.
<b>8ACC.1</b>	None.
<b>8VAR.1</b>	The relevant Shell Technical Authority – Air Transport, (TA/1) may vary requirement MR8C.2, where operations are in low density air traffic areas and an agreed Risk Assessment is in place, for limited exposure contracts.

<b>R691-5</b>	<b>Aircraft and Equipment</b>
<b>9</b>	<b>Flight Data Monitoring</b>
<b>MR</b>	<b>9B, 9C.1, 9C.2, 9C.3</b>
<b>Guidance Material</b>	
<b>9B</b>	To assure comprehensive accident investigation capabilities, the installation of a CVR (Cockpit Voice Recorder) and FDR (Flight Data Recorder) or a Combined Cockpit Voice and Flight Data Recorder (CVFDR), on an aircraft serves the purpose of systematically recording and storing essential audio and flight parameter data.
<b>9C.1</b>	No Guidance.
<b>9C.2</b>	See PART 691-2 8VAR.1, Aircraft Operations
<b>9C.3</b>	No Guidance.
<b>9ACC.1</b>	Shell Requirements to meet 9B, are that a CVR (Cockpit Voice Recorder) and FDR (Flight Data Recorder) or a Combined Cockpit Voice and Flight Data Recorder (CVFDR) are required.
<b>9VAR.1</b>	The relevant Shell Technical Authority – Air Transport, (TA/1) may vary requirement 691-5, Section 9, MR9B for limited exposure contracts.

<b>R691-5</b>	<b>Aircraft and Equipment</b>
<b>10</b>	<b>Reserved</b>

<b>R691-5</b>	<b>Aircraft and Equipment</b>
<b>11</b>	<b>Life Rafts</b>
<b>MR</b>	<b>11B, 11C.1, 11C.2.</b>
<b>Guidance Material</b>	
<b>11B</b>	No Guidance.
<b>11C.1</b>	No Guidance.
<b>11C.2</b>	No Guidance.
<b>11ACC.1</b>	None.
<b>11VAR.7</b>	None.

R691-5	Aircraft and Equipment
12	Emergency Exits
MR	12B, 12C.1, 12C.2, 12C.3
<b>Guidance Material</b>	
12B	No Guidance.
12C.1	No Guidance.
12C.2	No Guidance.
12ACC.1	None.
12VAR.3	None.

R691-5	Aircraft and Equipment
13	Reserved

R691-5	Aircraft and Equipment
14	Reserved

R691-5	Aircraft and Equipment
15	Reserved

R691-5	Aircraft and Equipment
16	Cockpit Camera
MR	16B, 16C.1, 16C.3, 16C.4, 16C.5, 16C.6
<b>Guidance Material</b>	
16B	The camera does not need record to the CVFDR or similar and a typical camera fit is: <a href="https://appareo.com/aviation/airs-400/">https://appareo.com/aviation/airs-400/</a> This camera is fitted in many aircraft and is available as a simple Supplemental Type Certificate (STC) for many other types.
16C.1	No Guidance.
16C.2	No Guidance.
16C.3	No Guidance.
16C.4	No Guidance.
16C.5	No Guidance.
16C.6	The Cockpit Camera should be a serviceability requirement as part of the Minimum Departure Standard, see 695, Section 1, MEL.
16ACC.1	None.
16VAR.1	The relevant Shell Technical Authority – Air Transport, (TA/1) may vary requirement MR16B, Cockpit Camera for low exposure contracts. where no other compliant aircraft is available.

R691-5	Aircraft and Equipment
17	Reserved

R691-5	Aircraft and Equipment
18	Flight Following
MR	18B, 18C.1, 18C.2
<b>Guidance Material</b>	
18B	See 691-2, Section 35. Flight following, for operational requirements.
18C.1	No Guidance. To meet 691-5, 18C.1.2, The relevant Shell Technical Authority – Air Transport, (TA/1) is consulted, where there is more than one period of unserviceability of the Satellite Flight Following System (SFFS) in 30 days. <b><u>This variation is managed and recorded locally.</u></b>
18C.2	No Guidance.
18ACC.1	None.
18VAR.1	None.

R691-5	Aircraft and Equipment
19	Passenger Seats and Harnesses
MR	19B, 19C.1, 19C.2
<b>Guidance Material</b>	
19B	No Guidance.
19C.1	No Guidance.
19C.2	No Guidance.
19ACC.1	None.
19VAR.1	None.

R691-5	Aircraft and Equipment
20	Survival kits
MR	20B, 20C.1
<b>Guidance Material</b>	
20B	No Guidance.
20C.1	No Guidance.
20ACC.1	None.
20VAR.1	None.

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R691-5	Aircraft and Equipment
21	Reserved

R691-5	Aircraft and Equipment
22	Continuous improvement of aircraft operational safety systems
MR	22ACC.1
<b>Guidance</b>	
22B	No Guidance.
22ACC.1	No
22VAR.1	None.