

Unscoped DCT Report (Custom DCT)

DCT Title: CFT Part 121 W&B Program - Cargo DA (OP)
DCT Type: National/Regional
Specialty: Operations
Assessment Type: National/Regional
DCT Revision: 1.0 on 10/04/18 (Released)

Summary Information

Purpose (Certificate Holder Responsibility): To operate the aircraft within the weight and balance limitations of the Aircraft Flight Manual (AFM) and safely handle the carriage of cargo.
Objective (FAA Responsibility): Determine if the CH will be able to (1) Comply with regulations and guidance; (2) Operate aircraft within the weight and balance limitations of the Aircraft Flight Manual (AFM); and (3) safely handle and carry cargo.

Questions	Answers	References
<p>1 Does the weight and balance control program include procedures, based on FAA approved data sources, to show that aircraft:</p> <p style="padding-left: 20px;">#1 Will be properly loaded per the approved configuration (loading schedules or charts); and #2 Will not exceed authorized weight and balance limitations during all ground and flight operations?</p> <p>NOTE: The approved data sources used to develop the program only come from the manufacturer's weight and balance documentation referenced from the TCDS, the AFM/RFM, and/or STC information, (as applicable), that information must be included in the certificate holder's manual system. Other sources of FAA approved or acceptable data are not permitted.</p> <p>Safety Attribute: Procedures, Question Type: Output Validation, Scoping Attribute: (FAR PART = "121"), Rev. 1 10/18/2018 11:07:00 AM, QID: 00052653, Response Details: EP & ED DCTs (Both OP and AW), Status, Status: Released</p>	<p><input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not Applicable</p>	<p>AC-120-85, 121.133, 121.135, 121.141, 91.1(a), 8900.1 Vol 3 Ch 47 Sec 1</p>
<p>2 Do the procedures require calculation of weights according to their approved Operations Specifications (A096, A097, A098, and/or A099), and require the use of actual weights for all cargo?</p> <p>NOTE:</p> <p>Safety Attribute: Procedures, Question Type: Output Validation, Scoping Attribute: (FAR PART = "121"), Rev. 1 10/18/2018 11:06:58 AM, QID: 00052656, Response Details: EP & ED DCTs (Both OP and AW), Status, Status: Released</p>	<p><input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not Applicable</p>	<p>A096, A098, 119.33, 8900.1 Vol 3 Ch 47 Sec 2, 8900.1 Vol 3 Ch 18 Sec 3, AC-120-27, A097, A099</p>
<p>3 Do the procedures ensure:</p> <p style="padding-left: 20px;">#1 All weights are consistently expressed in either pounds or kilograms; and #2 A method of conversion if both pounds and kilograms are used?</p> <p>NOTE:</p> <p>Safety Attribute: Procedures, Question Type: Output Validation, Scoping Attribute: (FAR PART = "121"), Rev. 1 10/18/2018 11:06:58 AM, QID: 00052657, Response Details: EP & ED DCTs (Both OP and AW), Status, Status: Released</p>	<p><input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not Applicable</p>	<p>8900.1 Vol 3 Ch 47 Sec 1</p>
<p>4 Do the procedures require certificate holder and vendor scales, used to determine cargo weight, are:</p> <p style="padding-left: 20px;">#1 Calibrated and traceable to NIST or an equivalent standard; and #2 Periodically and functionally checked for accuracy?</p> <p>NOTE:</p> <p>Safety Attribute: Procedures, Question Type: Output Validation,</p>	<p><input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not Applicable</p>	<p>AC-120-85, 8900.1 Vol 3 Ch 47 Sec 1, 8900.1 Vol 3 Ch 47 Sec 2</p>

Questions	Answers	References
<p>Scoping Attribute: (FAR PART = "121"), Rev. 1 10/18/2018 11:06:58 AM, QID: 00052660, Response Details: EP & ED DCTs (Both OP and AW), Status, Status: Released</p>		
<p>5 Do the procedures require that all cargo is:</p> <p>#1 Properly built up; and #2 Weighed?</p> <p>NOTE:</p> <p>Safety Attribute: Procedures, Question Type: Output Validation, Scoping Attribute: (FAR PART = "121"), Rev. 1 10/18/2018 11:06:59 AM, QID: 00052664, Response Details: EP & ED DCTs (Both OP and AW), Status, Status: Released</p>	<p><input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not Applicable</p>	<p>AC-120-85, 8900.1 Vol 3 Ch 47 Sec 1, 8900.1 Vol 3 Ch 47 Sec 2</p>
<p>6 Do the procedures specify the build up of ULD cargo that addresses:</p> <p>#1 ULD CG and weight limits; #2 Voided space in ULD; #3 Cargo contours; #4 ULD identification tags; #5 Serviceability checks and reporting damage; #6 Fastening container components; #7 Fastening a cargo net to a pallet; and #8 Restraint as outlined in approved data sources?</p> <p>NOTE:</p> <p>Safety Attribute: Procedures, Question Type: Output Validation, Scoping Attribute: (FAR PART = "121"), Rev. 1 10/18/2018 11:06:59 AM, QID: 00052667, Response Details: EP & ED DCTs (Both OP and AW), Status, Status: Released</p>	<p><input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not Applicable</p>	<p>AC-120-85, 8900.1 Vol 3 Ch 47 Sec 2, 8900.1 Vol 3 Ch 47 Sec 1</p>
<p>7 Does the certificate holder have loading and unloading procedures for all types of cargo that are permitted by the airplane's WBM, that includes requirements for:</p> <p>#1 Loading, based on aircraft configuration (i.e., all-cargo, passenger, combi, and convertible); and #2 Loading and unloading aircraft to avoid tail tipping?</p> <p>NOTE:</p> <p>Safety Attribute: Procedures, Question Type: Output Validation, Scoping Attribute: (FAR PART = "121"), Rev. 1 10/18/2018 11:06:59 AM, QID: 00052676, Response Details: EP & ED DCTs (Both OP and AW), Status, Status: Released</p>	<p><input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not Applicable</p>	<p>AC-120-85, 8900.1 Vol 3 Ch 47 Sec 1, 8900.1 Vol 3 Ch 47 Sec 2</p>
<p>8 Does the certificate holder have procedures for the loading and unloading of ULDs, including active ULDs, for main and/or lower compartments?</p> <p>NOTE:</p> <p>Safety Attribute: Procedures, Question Type: Output Validation, Scoping Attribute: (FAR PART = "121"), Rev. 1 10/18/2018 11:06:59 AM, QID: 00052679, Response Details: EP & ED DCTs (Both OP and AW), Status, Status: Released</p>	<p><input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not Applicable</p>	<p>AC-120-85, 8900.1 Vol 3 Ch 47 Sec 1, 8900.1 Vol 3 Ch 47 Sec 2</p>
<p>9 Do the certificate holder's procedures specify loading and unloading of bulk cargo to include:</p> <p>#1 Ensuring that bulk-loaded cargo or baggage is properly restrained (as required); and #2 All authorized main deck bulk cargo is loaded in accordance with the manufacturer's WBM or the STC instructions?</p> <p>NOTE:</p>	<p><input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not Applicable</p>	<p>AC-120-85, 8900.1 Vol 3 Ch 47 Sec 2</p>

Questions	Answers	References
<p>Safety Attribute: Procedures, Question Type: Output Validation,</p> <p>Scoping Attribute: (FAR PART = "121"), Rev. 1 10/18/2018 11:06:59 AM,</p> <p>QID: 00052680, Response Details: EP & ED DCTs (Both OP and AW), Status, Status: Released</p>		
<p>10 Do the procedures specify person(s) performing special cargo analysis function(s), or equivalent, are trained, qualified, and authorized?</p> <p>NOTE:</p> <p>Safety Attribute: Procedures, Question Type: Output Validation,</p> <p>Scoping Attribute: (FAR PART = "121"), Rev. 1 10/18/2018 11:06:57 AM,</p> <p>QID: 00052683, Response Details: EP & ED DCTs (Both OP and AW), Status, Status: Released</p>	<p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p><input type="radio"/> Not Applicable</p>	<p>AC-120-85, 8900.1 Vol 3 Ch 47 Sec 2</p>
<p>11 Do the procedures include FAA-approved instructions for special cargo loads that address:</p> <p>#1 Evaluating the capability of any aircraft the certificate holder is authorized to use to transport special cargo;</p> <p>#2 Loading and unloading special cargo; and</p> <p>#3 Calculating restraint required for a special cargo load as outlined in the manufacturer's WBM or the STC instructions?</p> <p>NOTE:</p> <p>Safety Attribute: Procedures, Question Type: Output Validation,</p> <p>Scoping Attribute: (FAR PART = "121"), Rev. 1 10/18/2018 11:07:00 AM,</p> <p>QID: 00052684, Response Details: EP & ED DCTs (Both OP and AW), Status, Status: Released</p>	<p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p><input type="radio"/> Not Applicable</p>	<p>AC-120-85, 8900.1 Vol 3 Ch 47 Sec 2</p>
<p>12 If the certificate holder uses straps and other restraint devices, do procedures specify:</p> <p>#1 Minimum tiedown separation requirements;</p> <p>#2 Calculating other restraint devices for a given cargo load;</p> <p>#3 Provide restraint in the forward, aft, vertical, and lateral directions;</p> <p>#4 Cargo restraint methods for all aircraft compartment types;</p> <p>#5 The use, storage and evaluation of the condition of cargo restraints (e.g. straps, netting, and ropes);</p> <p>#6 Use of cargo restraints as a primary restraint; and</p> <p>#7 Prohibition of using "straps to pallets" unless approved in the WBM?</p> <p>NOTE: Intermixing cargo restraint devices made of different materials is not recommended. The best method to determine the effectiveness of a strap or other restraint devices is that the reaction to load must be in the same direction as force is applied. Consideration should be given to strap installation angle and resulting reduction in available restraint.</p> <p>Safety Attribute: Procedures, Question Type: Output Validation,</p> <p>Scoping Attribute: (FAR PART = "121"), Rev. 1 10/18/2018 11:06:57 AM,</p> <p>QID: 00052688, Response Details: EP & ED DCTs (Both OP and AW), Status, Status: Released</p>	<p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p><input type="radio"/> Not Applicable</p>	<p>AC-120-85, 8900.1 Vol 3 Ch 47 Sec 2</p>
<p>13 Do the certificate holder's procedures specify determining and verifying any required load reduction requirements due to MEL and/or missing CLS components?</p> <p>NOTE:</p> <p>Safety Attribute: Procedures, Question Type: Output Validation,</p> <p>Scoping Attribute: (FAR PART = "121"), Rev. 1 10/18/2018 11:06:57 AM,</p> <p>QID: 00052696, Response Details: EP & ED DCTs (Both OP and AW), Status, Status: Released</p>	<p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p><input type="radio"/> Not Applicable</p>	<p>AC-120-85, 8900.1 Vol 3 Ch 47 Sec 2</p>
<p>14 Do the procedures require that, at takeoff time, load manifests include:</p> <p>#1 The weight of the aircraft, fuel and oil, cargo and baggage, passengers and crewmembers;</p> <p>#2 The maximum allowable flight weight per 121.693(b)(1) through (4);</p> <p>#3 The total weight computed under approved procedures; and</p> <p>#4 Evidence that the aircraft is loaded according to the approved schedule that ensures the center of</p>	<p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p><input type="radio"/> Not Applicable</p>	<p>121.135(b), 121.693, 121.693(b), 8900.1 Vol 3 Ch 47 Sec 2, 121.693(a), 121.693(c), 121.693(d), 121.693(e)</p>

Questions	Answers	References
<p>gravity is within approved limits?</p> <p>NOTE:</p> <p>Safety Attribute: Procedures, Question Type: Output Validation,</p> <p>Scoping Attribute: (FAR PART = "121"), Rev. 1 10/18/2018 11:06:57 AM,</p> <p>QID: 00052697, Response Details: EP & ED DCTs (Both OP and AW), Status, Status: Released</p>		
<p>15 Do the procedures specify an authorized person or persons supervising the loading of the aircraft is trained and qualified to ensure:</p> <p>#1 Cargo is properly secured with the appropriate type(s), quantity and placement of cargo restraint, and all pallet locks are engaged when used;</p> <p>#2 The aircraft is correctly loaded and unloaded using the certificate holders' procedures;</p> <p>#3 Cargo is placed on the aircraft in such a way as to prevent overloading sensitive sections of the airframe and cargo floor;</p> <p>#4 All required cargo-related documents are accurate and properly completed before submission to flightcrew members; and</p> <p>#5 The load manifest is signed by a trained, qualified, and authorized person?</p> <p>NOTE:</p> <p>Safety Attribute: Procedures, Question Type: Output Validation,</p> <p>Scoping Attribute: (FAR PART = "121"), Rev. 1 10/18/2018 11:06:57 AM,</p> <p>QID: 00052702, Response Details: EP & ED DCTs (Both OP and AW), Status, Status: Released</p>	<p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p><input type="radio"/> Not Applicable</p>	<p>8900.1 Vol 3 Ch 47 Sec 2, AC-120-85</p>
<p>16 Do the procedures address freight forwarding?</p> <p>NOTE:</p> <p>Safety Attribute: Procedures, Question Type: Output Validation,</p> <p>Scoping Attribute: (FAR PART = "121"), Rev. 1 10/18/2018 11:06:57 AM,</p> <p>QID: 00052708, Response Details: EP & ED DCTs (Both OP and AW), Status, Status: Released</p>	<p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p><input type="radio"/> Not Applicable</p>	<p>AC-120-85, 8900.1 Vol 3 Ch 47 Sec 2</p>
<p>17 Do the procedures address interlining?</p> <p>NOTE:</p> <p>Safety Attribute: Procedures, Question Type: Output Validation,</p> <p>Scoping Attribute: (FAR PART = "121"), Rev. 1 10/18/2018 11:06:57 AM,</p> <p>QID: 00052709, Response Details: EP & ED DCTs (Both OP and AW), Status, Status: Released</p>	<p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p><input type="radio"/> Not Applicable</p>	<p>AC-120-85, 8900.1 Vol 3 Ch 47 Sec 2</p>
<p>18 Do the procedures address freight staging?</p> <p>NOTE:</p> <p>Safety Attribute: Procedures, Question Type: Output Validation,</p> <p>Scoping Attribute: (FAR PART = "121"), Rev. 1 10/18/2018 11:06:56 AM,</p> <p>QID: 00052710, Response Details: EP & ED DCTs (Both OP and AW), Status, Status: Released</p>	<p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p><input type="radio"/> Not Applicable</p>	<p>AC-120-85, 8900.1 Vol 3 Ch 47 Sec 2</p>
<p>19 Does the certificate holder's training program contain the curriculum for the following personnel responsible for cargo operations and weight and balance procedures, so that they can perform their individual duties and responsibilities:</p> <p>#1 Load personnel;</p> <p>#2 Load supervisors;</p> <p>#3 Cargo build-up; and</p> <p>#4 Flightcrew training for cargo loading?</p>	<p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p><input type="radio"/> Not Applicable</p>	<p>AC-120-85, 8900.1 Vol 3 Ch 47 Sec 2</p>

Questions	Answers	References
<p>NOTE:</p> <p>Safety Attribute: Procedures, Question Type: Output Validation,</p> <p>Scoping Attribute: (FAR PART = "121") , Rev. 1 10/18/2018 11:07:00 AM,</p> <p>QID: 00052711, Response Details: EP & ED DCTs (Both OP and AW), Status, Status: Released</p>		
<p>20 Do the procedures require that the certificate holder's employees and other personnel are trained, qualified and authorized to:</p> <p>#1 Supervise the loading process in accordance with the certificate holder's WBM; and</p> <p>#2 Prepare and sign the load manifest forms before takeoff?</p> <p>NOTE:</p> <p>Safety Attribute: Procedures, Question Type: Output Validation,</p> <p>Scoping Attribute: (FAR PART = "121") , Rev. 1 10/18/2018 11:07:00 AM,</p> <p>QID: 00052749, Response Details: EP & ED DCTs (Both OP and AW), Status, Status: Released</p>	<p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p><input type="radio"/> Not Applicable</p>	<p>121.665, AC-120-85, 121.135, 8900.1 Vol 3 Ch 47 Sec 1, 8900.1 Vol 3 Ch 47 Sec 2</p>

Response Details List EP & ED DCTs (Both OP and AW) (Released, 1.0)

1	Unclear procedure(s)
2	Conflicting procedure(s)
3	Used workaround(s)
4	Skipped process step(s)
5	Personnel failed to follow process (procedures, guidance, etc)
6	Procedures/guidance not available
7	Procedures/guidance not current
8	Inconsistent procedure(s)
9	Undocumented procedure(s)
10	Minor typographical error(s) (i.e. record entries)
11	Information missing
12	Communication failure(s)
13	Personnel failed to perform task
14	Process failed to meet desired outcome
15	Process oversight failure
16	Equipment/tools not available
17	Equipment/tools not adequate
18	Equipment/tools not calibrated
19	Facilities not adequate
20	Other

Response Details List N/A Response Detail (Released, 1.0)

1	Operator not authorized by OpSpecs
2	Equipment not equipped/authorized
3	Not applicable due to exemption, deviation, or exception
4	Not authorized by regulation
5	Not authorized by Order
6	Not authorized by Notice
7	Not authorized/recommended by Advisory Circular
8	Not authorized by Policy Letter, Legal Interpretation, or other guidance
9	Other