



NAMIBIAN CIVIL AVIATION AUTHORITY

Advisory Pamphlet

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EMERGENCY EVACUATION AND DITCHING DEMONSTRATIONS

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Namibia Civil Aviation
Authority -
Safety Division

ADVISORY PAMPHLET
**Emergency Evacuation and
Ditching Demonstrations**

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Interim Executive Director for Civil Aviation





EMERGENCY EVACUATION AND DITCHING DEMONSTRATIONS

SECTION 1. GENERAL

I. GENERAL.

- A. This Advisory Pamphlet provides direction and guidance to inspectors for planning, observing, and evaluating emergency evacuation and ditching demonstrations. Effective emergency evacuation procedures have significantly reduced the number of casualties in survivable aircraft accidents. The NCAA considers an operator's ability to perform these procedures an extremely important factor of aviation safety.
- B. It is NCAA policy that AOC holders engaged in passenger-carrying operations must conduct a full-capacity or a partial aborted takeoff evacuation demonstration for any aeroplane with a seating configuration of more than 30 passenger seats. AOC holders engaged in passenger-carrying operations must conduct a full-capacity or partial ditching evacuation demonstration for any land aeroplane intended for extended overwater operations. The need to conduct full-capacity or partial demonstrations depends on whether another AOC holder engaged in passenger-carrying operations, or the aeroplane manufacturer, had previously accomplished a full-capacity demonstration. These demonstrations specifically test the following areas:
1. The operator's emergency training program and crewmember competency.
 2. The operator's emergency evacuation and ditching procedures.
 3. The reliability and capability of the emergency equipment on the aeroplane.
- C. A transport category aeroplane manufacturer must conduct emergency evacuation demonstrations. The demonstrations must be conducted in accordance with regulations applicable to the type certification and the State of aircraft design. Observation and evaluation of this demonstration is the responsibility of the NCAA. This demonstration tests the following:
1. The basic aeroplane design and the efficiency with which passengers can be safely evacuated from it
 2. The emergency evacuation systems on the aeroplane
 3. The manufacturer's/operator's NCAA approved emergency evacuation procedures



II. REGULATORY REQUIREMENTS.

Namibian Civil Aviation Regulation (NAM-CAR) 121.02.4 and Technical Standards (NAM-CATSOPS 121.02.4) specifies the requirements for conducting these demonstrations. The regulation cites when they must be performed, how they are to be conducted, and the specific criteria that must be met by the operator or manufacturer.

A. Full-Capacity Aborted Takeoff.

1. NAM-CATS-OPS 121.02.4(2) requires an AOC engaged in passenger carrying operations to conduct a full-capacity emergency evacuation demonstration for the aircraft configuration in 90 seconds or less. It is NCAA policy that this NAM-CAR is applicable to each type and model aeroplane with a configuration of more than 44 passenger seats that is used in passenger carrying operations. A full-capacity emergency evacuation demonstration simulates an aborted takeoff. Before initiation of the demonstration, a passenger participant must occupy each installed passenger seat.
2. After the initiation signal, all passenger participants and crewmembers must be evacuated using the aeroplane's emergency evacuation equipment and not more than 50 percent of the emergency exits and slides. The demonstration must show that the aeroplane and its emergency equipment, using the operator's emergency procedures, allows for the evacuation of its full seating capacity, including crewmembers, in 90 seconds or less. Additionally, if an operator proposes to use a type and model aeroplane with a seating configuration greater than has ever been previously demonstrated for that particular type and model, the operator must conduct a full-capacity demonstration with that type and model of aeroplane.

Note: *Criteria for demonstration of actual full capacity emergency evacuations are within the scope of the Namibian Civil Aviation Regulations. The procedures and guidance that follows supports NAMCATS-OPS-121.02.4, as it applies to full/partial emergency evacuation and ditching demonstrations.*

B. Partial Aborted Takeoff.

NAM-CAR 121.02.4 (4) specifies conditions under which an AOC holder may not be required to demonstrate a full capacity demonstration. If an AOC holder's written petition for a deviation from the requirements of NAM-CAR 121.02.4 (3) satisfies NAM-CAR 121.02.4 (4), the operator may be permitted to conduct a partial emergency evacuation demonstration in accordance with NAM-CAR 121.02.04(4). No passenger participants are



used in a partial demonstration. A partial emergency evacuation demonstration simulates an aborted takeoff and requires that, before initiation of the demonstration, the cabin attendants occupy their normal takeoff positions. After the initiation signal, the aircraft's emergency evacuation equipment and 50 percent of the required emergency exits and slides must be ready for use in 15 seconds or less. A partial emergency evacuation demonstration must be conducted in the following situations:

1. When an operator intends to place in service a type and model of aeroplane that is new to the company but which has previously had a full-capacity emergency evacuation demonstration conducted in accordance with applicable Namibian Civil Aviation Regulations and airworthiness standards.
2. When an operator "significantly changes" the number of cabin attendants, their seating location, their evacuation duties, or emergency procedures
 - (a) "Significant change," as used in the preceding subparagraph B(2), is a determination made by the operations inspector (OI) when an operator proposes to change the number of cabin attendants, their seating location, their evacuation duties, or emergency procedures.
 - (i) Number. When a change in seating configuration requires the addition of a cabin attendant (121.02.10) a partial demonstration is required if that operator has not previously demonstrated the higher seating capacity and larger complement of cabin attendants. A change in seating capacity, which does not result in the addition of a required cabin attendant or results in a fewer number of required cabin attendants, usually does not constitute a "significant change" and a partial demonstration usually is not required. In some cases, however, depending on changes in cabin attendant duties and/or procedures, a change in seating capacity that does not result in the addition of a cabin attendant or results in fewer cabin attendants may require a partial demonstration.
 - (ii) Location. When an operator changes a cabin attendant seating assignment, for any reason, the OI must consider if that action significantly changes the cabin attendant's duties and/or responsibilities. For example, changing a cabin attendant's seating assignment from one floor level exit to an adjacent floor level exit may not constitute a "significant change" in cabin attendant duties. However, if an operator changes the seating location because of a new procedure, which requires, for the first time, cabin attendants to open overwing window exits, that action would constitute a "significant change" and would require a partial demonstration.



- (iii) Duties and procedures. When an operator changes emergency evacuation duties or procedures, the OI must consider the scope and character of the change in determining the requirement for a partial evacuation. For example, if the degree of change requires cabin attendant actions or knowledge, which has never been previously required or demonstrated a partial demonstration is required. If the change in duties or procedures is minor or can adequately be dealt with through the operator's training program, a demonstration may not be required.
 - (b) Whenever an operator proposes to make one of the changes previously discussed, the OI, in determining the degree and significance of the change, must consider cabin attendant knowledge, experience and the operator's training program, and the increase in complexity of the duties for each cabin attendant in terms of additional exits, seats, or briefing responsibilities.
3. When an operator changes the number, location, type of emergency exits, or the type of opening mechanisms on the emergency exits used for aircraft evacuation, the need for a demonstration must be co-ordinated with the Directorate of Civil Aviation. Any such proposal made by an operator must be immediately forwarded to the Director of Civil Aviation for consideration and determination of whether a full capacity, a partial, or no demonstration is required.
4. NAMCATS-OPS-121 specifies the criteria used for evaluating a partial evacuation demonstration. The operator must demonstrate the effectiveness of its crewmember emergency training and evacuation procedures by accomplishing the following:
- (a) Conducting a demonstration without passenger participants using the operator's line operating procedures
 - (b) Opening the exits and deploying the slides as selected by the NCAA, and "Prepare for use" of those exits and slides within 15 seconds.

NOTE: "Prepare for use" is defined as the emergency exits being fully opened and, if applicable, the emergency exit slides being completely deployed or inflated and properly positioned on the ground in a manner which would not impede passenger or crewmember egress.

- (c) Using company cabin attendants who have completed the approved training program for the type and model of aeroplane being demonstrated and who have passed a written or practical examination on emergency equipment and procedures
- (d) Opening 50 percent of the total emergency exits and deploying 50 percent of the exit slides



NOTE: If the operator-developed emergency evacuation procedures require cabin attendants to open required non-floor-level emergency exits, 50 percent of those exits must also be opened during the demonstration.

- C. Ditching. NAM-CATS-OPS 121.04.2(3) requires an operator who intends to operate a land plane in extended overwater operations to conduct a ditching demonstration. NAMCATS-OPS 121.04.2(3) prescribes the conditions applicable to the conduct of the ditching evacuation demonstration.

NOTE: With respect to aircraft other than helicopters, definition "extended overwater operations", as an operation over water at a horizontal distance of more than 50 nm from the nearest shoreline; and to helicopters, an operation over water at a horizontal distance of more than 50 nm from the nearest shoreline and more than 50 nm from an offshore heliport structure.

SECTION 2. THE ABORTED TAKE-OFF EMERGENCY EVACUATION DEMONSTRATION

I. THE ABORTED TAKEOFF DEMONSTRATION: PHASE ONE.

- A. The regulatory requirements previously outlined in this Advisory Pamphlet identify the three occasions when an AOC holder engaged in passenger carrying operations must conduct an emergency evacuation demonstration. An emergency evacuation demonstration is required when the operator proposes to operate a specific aeroplane type and model:
1. For the first time either a new, as with initial certification, or existing operator.
 2. When there is a "significant change" in the number of cabin attendants, their seating location, their evacuation duties, or emergency procedures (as determined by the OI).
 3. When there is a change in the number, location, type of emergency exits, or type of opening mechanism on the emergency exits used for aircraft evacuation (as determined by the Director of Civil Aviation).

NOTE: It is NCAA policy that if an operator proposes to conduct operations with an aircraft configured with less than 44 seats (even though the aircraft may have been previously type certificated with more than 44 seats) neither a full-capacity nor a partial demonstration is required.



- B. When an operator's situation meets one or more of these conditions, the NCAA inspector or Certification Project Manager (CPM) must determine the requirement for either a full capacity or a partial aborted takeoff evacuation demonstration.
1. A full-capacity demonstration is required in the following situations:
 - (a) When the aeroplane type and model and its proposed full passenger seating capacity has not been previously demonstrated by another State AOC holder or by a domestic or foreign manufacturer in accordance with airworthiness regulations applicable to the state of design.
 - (b) When an aeroplane has undergone a change in its exit configuration and/or design (as determined by the Director of Civil Aviation)
 2. A partial demonstration is required in the following situations:
 - (a) When an aeroplane (new to an operator) has previously had a full-capacity demonstration, conducted by an AOC holder or manufacturer, for the maximum seating configuration to be used by the operator acquiring the aeroplane.
 - (b) When the operator is undergoing original or initial certification.
 - (c) If the OI determines a "significant change" has occurred in the number of cabin attendants, their location, or their duties and emergency procedures.
 - (d) If the Director of Civil Aviation determines a change has occurred in seating configuration, exits, or some other material alteration of the aeroplane's original design that would require a partial demonstration.
- C. The most commonly performed demonstration is the partial aborted takeoff emergency evacuation demonstration. The general criteria (with the exception of the 15 second time limit and passenger participants) are similar to the full-capacity aborted takeoff demonstration. For the purposes of this Advisory Pamphlet, the discussion of the partial and full-capacity evacuation demonstration process is combined into one section. Additional requirements, exclusively imposed by the full-capacity evacuation demonstration, are shown in an appropriately titled box.

II. BRIEFING THE OPERATOR ON DEMONSTRATION REQUIREMENTS.

- A. After the NCAA inspectors (PM if applicable) determine whether a partial or full-capacity demonstration is required, the operator must develop a plan outlining the manner in which the demonstration is to be conducted. NCAA inspectors must meet with the operator as often as necessary to ensure the operator clearly understands which documents and information are required for the plan to be accepted for evaluation.
- B. The operator may not practice, rehearse, or describe the demonstration for the passengers (when passengers' actions are required by the operator's procedures) nor



may any participant have taken part in this type of demonstration within the preceding six months.

- C. Company officials, such as directors of operations and maintenance, must be available at the site for either a full-capacity or partial demonstration. These individuals must have authority to direct modifications to the emergency evacuation demonstration plan at the time of the demonstration. Additionally, they must be able to respond to NCAA requirements for specific corrective actions due to deficiencies that may occur during the demonstration. Other company personnel present at the demonstration site should have a direct role in conducting the demonstration. The company should be informed that, although other company personnel may observe the demonstration, it is the company's responsibility to ensure that these persons do not pose a distraction or affect the demonstration's outcome.
- D. Non-company personnel, who are not NCAA personnel, must have specific reasons to observe the emergency evacuation demonstration. Usually, these individuals will be representatives of the aircraft manufacturer, manufacturers of other items of equipment used during the demonstration, or other such organisations that have a direct interest in aviation safety.
- E. The cabin attendant complement must consist of the minimum number of cabin attendants that the operator proposes to use on the aeroplane in commercial air transport passenger-carrying operations, and in no case shall the minimum number be less than that specified in the NAM-CAR.
- F. The aeroplane must be positioned in a normal ground attitude and configured for takeoff. Each passenger compartment door or curtain must be positioned as it would be for a normal takeoff.

III. THE OPERATOR'S PLAN.

NAMCATS-OPS-121.02.4 requires the operator to obtain NCAA approval before conducting the emergency evacuation demonstration (full-capacity or partial). The operator should submit the plan as far in advance as possible. NCAA policy is that the plan be submitted at least 15 working days in advance of a partial demonstration and 30 working days in advance of a full capacity demonstration. The operator's plan shall contain the following information:

- A. A letter of request which states the following:
 - 1. The applicable regulation NAM-CAR 121.02.4 that requires a full-capacity or partial emergency evacuation demonstration be conducted.
 - 2. The aeroplane type and model and full seating capacity (including crewmembers) to be demonstrated.



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3. The number of cabin attendants and their duty assignment positions to be used during the demonstration.
 4. The proposed date, time, and location of the evacuation demonstration.
 5. The name and telephone number of the company's evacuation demonstration coordinator (spokesperson).
 6. A clear description of how the operator proposes to initiate the demonstration, the signal to be used for the purpose of timing, and how the operator intends to block exits which are not to be used, must also be in the plan. The operator must understand that the signal has to be given to both cabin and ground personnel simultaneously to initiate the demonstration. It should be emphasised that the operator is responsible for developing the initiation procedure and the method for blocking exits. The team leader will thoroughly review this procedure for adequacy.
- B. A diagram, representative of the aeroplane to be demonstrated, which includes the following:
1. The location and designation of all exits by type and the designated exit pairs.
 2. The assigned seating location of each required crewmember during takeoff.
 3. The interior cabin configuration showing the location of each passenger seat, the galleys, aisles, lavatories, and passenger compartment partitions and bulkheads.
 4. The location and type of emergency equipment on the aircraft including:
 - (a) Fire extinguishers
 - (b) Portable oxygen bottles/masks
 - (c) Megaphones
 - (d) Crash axes
 - (e) Emergency ropes/tapes
 - (f) Liferafts/sliderafts
 - (g) Individual floatation devices or life preservers
 - (h) First aid and medical kits
- C. Copies of the appropriate crewmember manual pages describing emergency evacuation duties and responsibilities.
- D. A copy of the passenger information card which will be used on the aircraft during revenue operations.
- E. A description of the emergency equipment installed on the aircraft including at least the type and model of each item of equipment, as applicable.
- F. A list of crewmembers (both flight deck and cabin) who are or will be qualified to participate in the demonstration must be in the operator's plan. The flight crew must be qualified in the aircraft to be used, however, the initial operating experience requirement need not be completed. Cabin attendant personnel (in accordance with NAMCAR Part



64 must have completed an NCAA approved training program and passed drills and competence check on the type aircraft, emergency equipment, and procedures. Cabin attendants designated by the NCAA to participate in the demonstration shall not be provided emergency training or aircraft emergency equipment familiarisation more than that specified in the operator's approved training program before the demonstration.

NOTE: The flight crew must take no active role in assisting others inside the cabin during the demonstration.

G. A description must be in the plan of how the operator will ensure the demonstration is conducted in the "dark of the night," or in conditions which simulate the "dark of the night." The regulations do not define "dark of the night." For the purpose of emergency evacuation demonstrations, "dark of the night" shall mean a level of illumination that approximates the natural illumination that occurs 90 minutes after official sunset under clear sky conditions. This lower level of illumination is needed to properly evaluate the aeroplane's emergency lighting system and passenger and crewmember performance in darkened conditions. Levels of illumination significantly darker can interfere with a proper evaluation of the demonstration. Therefore, this approximate level of illumination should be maintained by natural or artificial means. The most effective way of controlling the level of illumination is to conduct the demonstration in a darkened hangar. It is NCAA policy that such conditions are required for evaluating the aircraft's emergency lighting system and crewmembers' performance in a darkened environment.

H. A description of how the operator plans to ensure that the aeroplane is positioned in a location, either indoors or outdoors, which will allow the unobstructed deployment of all emergency evacuation slides or sliderafts, as applicable

IV. THE ABORTED TAKEOFF DEMONSTRATION: PHASE TWO.

When the operator's emergency evacuation demonstration plan is submitted, the NCAA inspectors or the certification team, if applicable, must in phase two, make a cursory review of the submission to ensure all the required information and documents discussed in phase one are included. While a thorough analysis of the submission is conducted during phase three, in phase two the NCAA should respond to the operator's plan in a timely manner. Minor omissions or deficiencies can often be resolved by contacting the company's evacuation demonstration co-ordinator. If discrepancies can be resolved quickly, the process moves to phase three. If the operator's plan has a significant number of required items or documents missing or is obviously incomplete, the entire submission must be returned to the operator with a written explanation of why it is unacceptable. The operator shall be advised that the NCAA will take no further action until an acceptable plan is submitted.

V. THE ABORTED TAKEOFF DEMONSTRATION: PHASE THREE.

During phase three the NCAA inspectors, or the certification team, if applicable, conduct a thorough analysis and evaluation of the operator's plan.



- A. The NCAA inspectors (or PM, if applicable) must ensure that the information in or attached to the operator's letter of request is acceptable and consistent with the proposed type of demonstration. During this analysis and review the OI shall ensure the following:
1. The operator's emergency training program has been NCAA approved.
 2. Evacuation procedures in the operator's approved manuals, including individual crewmember assignments, are realistic, can be practically accomplished.
 3. The passenger information card is approved and consistent with the type and model of aeroplane to be demonstrated.
 4. The emergency equipment is acceptable for the type of operation proposed.
- B. Certain items in the proposal may require on site evaluations. For example, the hangar or ramp area the operator intends to use for the demonstration should be inspected for its adequacy. The inspector should determine that the operator has or is making provisions for participant safety during the demonstration including the use of safety observers, stands, padding, mats, and any other appropriate safety measures.
- C. Deficiencies noted during this analysis and review must be resolved with the company's evacuation demonstration co-ordinator. If major discrepancies surface during the NCAA evaluation or if the NCAA and the operator are unable to resolve significant issues, the operator's plan must be returned with a letter explaining why it is being returned. The operator shall be informed that the discrepancies outlined in the letter must be corrected and a plan resubmitted before the NCAA takes further action. If, after a detailed evaluation, the submission is found acceptable, the operator shall be notified that the NCAA has accepted it.

VI. THE ABORTED TAKEOFF DEMONSTRATION: PHASE FOUR.

During phase four, the NCAA plans, observes, and evaluates the operator's aborted takeoff emergency evacuation demonstration. The planning segment of this phase is particularly important and normally requires thorough co-ordination and clear instruction and guidance for both the NCAA and company participants to ensure that the demonstration is conducted and evaluated objectively. Specific guidance and instruction for planning and conducting the full capacity and partial aborted takeoff evacuation demonstrations are in section 3.

VII. THE ABORTED TAKEOFF DEMONSTRATION: PHASE FIVE.

Upon successful completion of an aborted takeoff emergency evacuation demonstration, the operator shall be immediately notified at the site of the demonstration. The results of the demonstration are reported as specified in section 6. The aircraft make model and the maximum demonstrated passenger seating capacity must be listed and approved in Part A, paragraph A4 of the Operations Specifications (OPSPECS).



SECTION 3. ABORTED TAKE-OFF DEMONSTRATION PROCEDURES

I. THE DEMONSTRATION TEAM.

A team leader shall head the NCAA team responsible for evaluating the emergency evacuation demonstration. For an initial certification, the Certification Project Manager (CPM) serves as the demonstration team leader. When an existing operator conducts a demonstration, the NCAA will normally assign one of the operator's NCAA inspectors to serve as the demonstration team leader. The team leader should be assigned as early as possible in the process, and no later than the beginning of phase three. The team leader is responsible for planning, conducting, and evaluating the emergency evacuation demonstration. The team leader serves as the focal point and central spokesperson for the NCAA on all matters pertaining to the demonstration. Other members of the NCAA team should be assigned as needed and consist of operations, maintenance, and avionics inspectors familiar with commercial air transport operations and applicable regulatory requirements.

II. PRE-DEMONSTRATION MEETING WITH OPERATOR.

After reviewing and thoroughly evaluating the operator's plan (phase three), the NCAA team leader should meet with the operator's evacuation demonstration co-ordinator. During this meeting the NCAA team leader should accomplish the following:

- A. Review the operator's plan and ensure that the operator is thoroughly familiar with the applicable criteria to be used during the demonstration.
- B. Ensure that the operator is aware of its responsibilities regarding participant safety including provisions for safety observers, stands, ramps, padding, and ambulance coordination, as applicable.
- C. Review the method and signals for initiating the demonstration and timing criteria.
- D. In co-ordination with the operator, determine the signal to be used to terminate the demonstration such as an air horn, or some other clear, distinguishable audible signal. (Experience has demonstrated that a whistle blast may not be adequate.) A suitable device should be agreed upon as early as possible in the planning stage and tested to assure its adequacy.
- E. Resolve any unanswered questions or issues the operator may have before conducting the demonstration.



III. NCAA TEAM PLANNING.

The NCAA team leader shall conduct a meeting with NCAA team members to assure each team member has a specific assignment during the demonstration. This includes timekeeping, position (inside or outside the aeroplane), and inspecting the emergency equipment, the aeroplane, and any applicable documents. The team leader should distribute an aircraft diagram to each inspector showing his or her assigned locations for the demonstration. The team must determine which emergency exits shall be opened and the manner in which other exits will be blocked. "Typical" crewmembers used in the demonstration must be selected at random from a list provided by the operator of at least two full crew complements. Normally, typical crewmembers should not include those used in previous demonstrations, emergency procedures instructors, supervisors, check airmen, union safety representatives, or others who may have an above average level of experience or exposure to emergency evacuation requirements. The team leader must make certain each team member is aware of the signal to be used to initiate the demonstration and the signal to be used to terminate the demonstration. During the NCAA meeting, regulatory requirements and demonstration criteria should be reviewed to assure common understandings.

IV. SELECTING EXITS.

- A. In aeroplanes having an even number of exits not more than 50 percent of the total number of exits and slides may be opened and deployed. When an aeroplane has an odd number of emergency exits, subtract one (if possible, an unpaired exit). Fifty percent of that number of exits shall be opened and the associated slides (if applicable) deployed. The remaining exits must be blocked.
- B. Any emergency exit assigned to a cabin attendant as part of his/her evacuation duties may be selected for use during the demonstration. These floor level exits (doors) and non-floor-level exits (windows or plugs) may be used provided they are designated as primary exits to be opened by a cabin attendant in the company's evacuation procedures. Ventral (stairs) and tail cone exits should not be used unless they are paired with another exit. If there is any doubt as to which exits are paired, consult the State of aircraft design responsible for the type certificate of the aircraft make/model.
- C. The team leader must carefully review the operator's emergency evacuation procedures. During partial demonstrations, only the cabin attendant's primary exits, as designated by the operator's manual, may be used. When deciding which doors or exits are to be opened during a partial demonstration, the NCAA shall not select a door that is not designated as a primary cabin attendant duty to open, or a secondary door or exit that could not possibly be opened and ready for use in 15 seconds. It is recommended that one exit from each exit pair be selected. Exit pairs should be identified by the operator in the interior configuration diagram. After determining which exits will be used, the team should not divulge that information to the operator.



V. BLOCKING EXITS.

The operator should propose the method for blocking exits. The demonstration team must review the proposal to determine its acceptability.

- A. The following are examples of acceptable methods of blocking exits during an emergency evacuation demonstration:
1. Tape a swatch of red cloth covering each door window and window exit. Secure a line to the covering long enough to reach the ramp or hangar floor. At the initiation signal, designated inspectors will pull the lines to remove the coverings from the door windows or window exits that are to be used and leave the coverings on the windows that are not to be used.
 2. Position inspectors inside the aeroplane at each door or window exit before starting the demonstration. When the evacuation is initiated, the inspectors positioned in front of exits to be opened shall move from that position as quickly as possible. Inspectors positioned in front of exits not to be used will block the exits by raising their hands and stating, "this exit is blocked." This is the most effective method for blocking overwing exits.
 3. To simulate a fire at the blocked exits, rig red lights (which when illuminated simulate fire) in front of the appropriate door windows or window exits. The lights at the exits to be blocked must be illuminated simultaneously with the initiation signal.
- B. When a method of blocking exits has been determined, the NCAA team leader must notify the company's project co-ordinator of NCAA concurrence with the method and ensure the company will provide the required maintenance and logistical support to prepare the exit blocking methods.

VI. INITIATION SIGNAL.

- A. It is essential that NCAA team members be aware of the demonstration initiation signal. The operator should propose a method that provides the same initiation signal for participants inside the aeroplane and NCAA team members outside the aeroplane. The preferred method is for a company employee to interrupt the aeroplane's normal source of power by one of the following actions:
1. Disconnecting, or turning off an external source of power or a ground power unit
 2. Disconnecting or turning off the auxiliary power unit
- B. This method of initiating the demonstration provides a clear initiation signal in the following ways:



1. Inside the aeroplane, the cabin attendants and NCAA team members will observe the normal cabin lighting extinguish and the emergency lighting system illuminate as their signal to commence the evacuation demonstration.
2. Outside the aeroplane, NCAA observers (stationed at each exit) and the team leader (who serves as the timekeeper) will observe the external lights (for example, taxi lights, anti-collision lights, position lights, and logo lights) extinguish. This is the signal to initiate the timing and other necessary observation actions of the NCAA team.

VII. PARTICIPANTS.

Due to the complexity involved in conducting an emergency evacuation demonstration, only those individuals who have a genuine need or concern should be present during the demonstration. Interested but unessential personnel may present hazards, interfere, or in other ways affect the outcome of the demonstration.

- A. The operator is responsible for all non-NCAA personnel who observe the demonstration. Those not directly involved in the demonstration should be kept at a reasonable distance from the aeroplane by some means such as ropes or lines.
- B. The NCAA team leader is responsible for NCAA personnel who observe the demonstration. NCAA observers should be limited to those who are required to evaluate the conduct of the demonstrations or need to be involved for specific reasons such as the following:
 1. NCAA inspectors from other offices whose operators will be acquiring the same or similar type aircraft as the one being demonstrated.
 2. Government officials or designees.
 3. NCAA personnel from any other NCAA office concerned with technical or engineering components of the aircraft.

VIII. PRE-DEMONSTRATION INSPECTION.

Before the demonstration, the NCAA team must inspect the aeroplane and emergency equipment. The aircraft must be configured and equipped for takeoff, in accordance with the operator's manuals and procedures. The aeroplane must be configured in the proposed full passenger seating configuration with all appropriate emergency equipment installed. The team shall inspect each of the following items to ensure regulatory compliance (as applicable):

- A. Hand fire extinguishers for crew, passenger, and cargo compartments.
- B. Protective breathing equipment.
- C. First aid equipment.
- D. Crash axe.



- E. Megaphones.
- F. Interior emergency exit markings.
- G. Floatation devices or life preservers.
- H. Lighting for interior emergency exit markings.
- I. Emergency light operation.
- J. Emergency exit operating handles.
- K. Emergency exit access.
- L. Exterior exit markings.
- M. Exterior emergency lighting and escape route.
- N. Floor level exits.
- O. Additional emergency exits.
- P. Ventral or tail cone exits.
- Q. Portable lights.
- R. Seats, safety belts, and shoulder harnesses.
- S. Emergency equipment required for extended overwater operations.
- T. Public address system.
- U. Passenger information signs/placards.
- V. Aeroplane fire detection and protection system (operational test).
- W. Passenger information cards.
- X. Cockpit escape system.
- Y. Slides and sliderafts.

NOTE: For the purpose of a mini evacuation demonstration only, the slides may be beyond scheduled inspection criteria. However, the operator must request this option in its demonstration plan and state that it accepts full responsibility for any failure of the demonstration due to a malfunction of the slides. The NCAA team leader or a higher authority will have the option to either accept or deny this proposal.

IX. PRE-DEMONSTRATION BRIEFINGS.

- A. Before the actual demonstration, three separate briefings should be conducted for the following participants:
 - 1. Crewmembers involved in the demonstration.
 - 2. Passenger participants (if applicable).
 - 3. The NCAA team.
- B. The company's evacuation demonstration co-ordinator should provide crewmembers with certain information regarding the demonstration. The NCAA team leader must be in attendance at this briefing to resolve any questions and to ensure the following information is included:



1. The purpose of the demonstration is to evaluate the following:
 - (a) The effectiveness of the company's training program as reflected by the crewmembers' actions.
 - (b) The adequacy of the company's emergency procedures.
 - (c) The effectiveness and reliability of the aeroplane emergency equipment.
2. The initiation signal, which begins the demonstration, must be clearly specified.
3. The significance of the 90 second time limit (for full-capacity evacuations) or the 15 second time limit (for partial evacuation), as appropriate, should be discussed.
4. The signal to be used by the NCAA team leader for terminating (stopping) the demonstration such as an air horn, or some other clear audible means should be described. Any evacuation activity in progress must immediately cease with a "stop" signal.
5. The importance of safety during the demonstration including crewmember responsibilities, safety observer duties, and limitations should be emphasised.

C. The NCAA team leader shall brief the NCAA team as follows:

1. State the objectives of the demonstration.
2. Review the initiation signal.
3. Review observer assignments with regard to exits to be used or blocked.
4. Review the signal that stops the demonstration.
5. Remind the team members not to discuss the results of their observations with persons other than the team leader.

X. CONDUCTING THE DEMONSTRATION.

- A. The team leader shall ensure all pre-demonstration briefings and inspections are conducted before the actual demonstration. The following sequence of events represents an acceptable means, derived from past experience, for conducting the demonstration.
- B. For both full-capacity and partial demonstrations cabin attendants shall accomplish the following:
 1. Prepare for a normal departure in accordance with the operator's procedures, including closing and securing all exits, galleys, and arming the emergency evacuation system for takeoff.
 2. Conduct a passenger briefing in accordance with NAM-CAR and the company's procedures.
 3. Be seated at their assigned positions with their restraint systems fastened.
- C. The NCAA team then ensures each external door and exit, and each internal door or curtain is in position for a normal takeoff.



- D. Before the initiation signal, the flight crew shall accomplish all tasks on appropriate checklists and configure the aeroplane for a normal takeoff. The flight crew must be seated in their normal positions with their restraint systems fastened.
- E. After completing all required pre-takeoff actions, the captain shall inform the NCAA team leader (who is positioned forward of the nose of the aircraft), by ground interphone, that he/she is ready for takeoff.
- F. Once the NCAA team leader has been told that the crew is ready, he/she must make certain all NCAA team members and company safety observers (if used) are ready and in position. The team leader will then issue a warning signal (air horn or whistle blast) which should precede the initiation signal by approximately 30 seconds. Depending upon the method approved by the NCAA (as in the operator's plan) the team leader shall inform the company evacuation demonstration co-ordinator to initiate the demonstration.
- G. The NCAA team leader will begin timing with two stopwatches (a primary and a back up) when the external aeroplane lights extinguish. At the end of the appropriate time period (90 or 15 seconds, as appropriate) the team leader shall issue a clear, audible signal terminating (stopping) the demonstration.
- H. For a partial demonstration, each NCAA observer assigned to exits which are to be used, shall be responsible for determining that his/her assigned exit was opened and each slide or slideraft (as applicable) was prepared for use before the team leader's termination signal. Any exit, slide, or slideraft that was not prepared for use before the termination signal constitutes an unsatisfactory demonstration.
- I. The NCAA team members assigned to the cabin shall ensure that all required equipment worked properly (for example, floor proximity lighting, emergency exit lights).
- J. It is important that team members do not discuss the results of their observations with company personnel or passenger participants. After the demonstration has been terminated, the NCAA team shall confer immediately on the observation of each team member and the overall conduct of the demonstration before advising the operator of the demonstration results.



SECTION 4. DITCHING DEMONSTRATIONS

I. GENERAL.

- A. An applicant or certificate holder who proposes to operate a landplane (passenger or all cargo) in extended overwater operations (more than 50 miles from land) must conduct a ditching demonstration. This demonstration is conducted in accordance with the requirements specified the NAMCATS-OPS-121) and the direction and guidance provided in this Advisory Pamphlet. The purpose of the demonstration is to evaluate the operator's ability to safely prepare the passengers, aeroplane, and ditching equipment for a planned water landing. During the demonstration the following four areas are evaluated:
1. Emergency training program.
 2. Ditching procedures.
 3. Crewmember competency.
 4. Equipment reliability and capability.

II. REGULATORY REQUIREMENTS.

- A. Ditching Demonstration. NAM-CAR requires an operator to conduct a ditching demonstration if the proposed type and model of land plane is to be used in extended overwater operations.
- B. NAMCATS-OPS-121 provides requirements for a partial ditching evacuation demonstration. During a partial demonstration the AOC holder's assigned cabin attendants shall:
1. Prepare the cabin for ditching within 6 minutes after the intention to ditch is announced.
 2. Remove each liferaft from storage (one liferaft or slideraft selected by the NCAA, shall be inflated and properly launched); and,
 3. Cabin attendants shall enter the raft and completely set it up for extended occupancy.
 4. The raft shall include all required emergency equipment.
 5. Cabin attendants shall demonstrate their knowledge and use of each item of required emergency equipment.

III. THE DITCHING DEMONSTRATION PLAN.

Ditching demonstrations are normally conducted during daylight hours or in a lighted hanger after the satisfactory completion of the aborted takeoff emergency evacuation demonstration.



In these situations, the same team leader and NCAA team members should conduct and observe the ditching demonstration. However, if an operator plans to initiate flights into extended overwater areas for the first time, with an aeroplane that it previously operated over land areas, the operator must conduct a separate ditching demonstration.

- A. If the operator plans to conduct the ditching demonstration in conjunction with the emergency evacuation aborted takeoff demonstration, the operator's aborted takeoff demonstration plan must include information applicable to the ditching demonstration such as the following:
1. Type of ditching demonstration.
 2. Copies of the operator's manual relating to crewmembers ditching duties and responsibilities.
 3. A description of applicable emergency equipment used for ditching (such as liferafts, survival gear) including the type and model of the emergency equipment.
- B. If the operator must conduct a ditching demonstration that is not in conjunction with an emergency evacuation aborted takeoff demonstration, the operator's demonstration plan must be submitted at least 15 working days before the date of the actual demonstration and include the following additional information:
1. The aeroplane type and model which will be used.
 2. The proposed date, time, and location of the ditching demonstration.
 3. The name and telephone number of the company's ditching demonstration coordinator.
 4. A representative diagram of the aircraft which includes the following:
 - (a) Location and designation of each exit.
 - (b) Location of each item of emergency ditching equipment including:
 - (i) Liferafts/sliderafts.
 - (ii) Survival radios.
 - (iii) Pyrotechnic signalling devices.
 - (iv) Passenger/crewmember life preservers or individual floatation devices.
 5. A list of all crewmembers who will participate in the demonstration.

NOTE: Some operator's manuals stipulate the use of passengers to aid the crew when conducting a post ditching evacuation, usually to assist in launching life rafts. If the operator's procedures require the use of passengers, the necessary passengers must be aboard the aircraft and participate in the demonstration. The operator may not practice, rehearse, or describe the demonstration to the passenger participants in a manner other than the briefing described in the operator's manual.



IV. REVIEW OF THE DITCHING DEMONSTRATION PLAN.

- A. When the ditching demonstration plan has been submitted, the NCAA inspectors must review the proposal to ensure the following:
 - 1. The proposed demonstration will meet the criteria in NAMCATS-OPS-121
 - 2. The emergency training program and ditching procedures in the operator's manual must have been approved and accepted and provide for safe operating practices.
- B. The NCAA team must plan for the observation and evaluation of the ditching demonstration. Normally, the demonstration is conducted after the completion of a successful aborted takeoff emergency evacuation demonstration. If an aborted takeoff emergency evacuation demonstration is not conducted, the CPM shall appoint a NCAA ditching demonstration team and a team leader in the same manner as was accomplished for the aborted takeoff demonstration.

V. CONDUCT OF THE DITCHING DEMONSTRATION.

The ditching demonstration shall be conducted in the following manner:

- A. Before the ditching demonstration the team shall inspect each item of emergency ditching equipment for compliance with appropriate airworthiness and other relevant Advisory Pamphlets.
- B. The NCAA team leader ensures inspectors and crewmembers are at their assigned positions and then advises the captain to commence the demonstration.
- C. The captain initiates the demonstration by ordering (according to the operator's procedures) the crewmembers to prepare for ditching.

NOTE: It is imperative that emergency equipment, crewmember competency, and emergency procedures provide for rapid evacuation since during an actual ditching situation, the aeroplane may remain afloat for only a short time. During the demonstration, emphasis is on crewmember ability and efficiency in the time period between the decision to ditch and the actual water landing. Six minutes is considered the maximum time acceptable for ditching preparation beginning with the ditching announcement to the simulated water landing. This preparation means participating crewmembers must correctly put on life preservers, brief passenger participants (if applicable), secure the cabin, and complete all required checklists and procedures within 6 minutes of the ditching announcement. Failure to be prepared at the end of 6 minutes constitutes an unsatisfactory demonstration.



- D. The NCAA team leader begins timing when the captain issues the prepare for ditching order. At the end of the 6 minute "planned ditching" period the crew must be prepared for a simulated water landing. After the simulated water landing, all life rafts must be removed from stowage. This action is not specifically timed, however the crewmembers must demonstrate competency in removing the rafts from stowage and the raft must be capable of being removed from the aeroplane for deployment in a reasonable period of time. For full-capacity demonstrations all life rafts and slide rafts will be launched and inflated. During a partial ditching demonstration one life raft (or slide raft), designated by the NCAA team leader, is launched and inflated. For the purpose of this demonstration "launching" a life raft means to remove it from stowage, manipulate it out of the aeroplane (via stands or ramps), and position it on the ground before inflation. "Launching" a slide raft means to inflate it in a normal manner and then lower it to the ground.

NOTE: For ditching demonstrations on aircraft configured with slide rafts, it is not necessary to detach each slide raft from its respective door mounting. However, each slide raft must be inspected for its airworthiness. Any life rafts stowed inside the aeroplane must be removed from stowage and placed on the cabin floor for inspection.

- E. Crewmembers assigned to any inflated raft shall be questioned about actual launch procedures then enter the raft and locate and describe the use of each item of emergency equipment within the raft.

SECTION 4. EVALUATING EVACUATION AND DITCHING DEMONSTRATIONS

I. AREAS TO BE EVALUATED.

During phase four of the aborted takeoff, emergency evacuation demonstration, or the ditching demonstration, the NCAA team must evaluate the following areas:

- A. Crewmember compliance and effectiveness in performing assigned duties and responsibilities. For example, a cabin attendant's effectiveness in assessing outside conditions, opening exits, and passenger evacuation commands. Another example is passengers assisting in launching life rafts during a ditching demonstration. The cabin attendant's instructions to the passengers must conform to the information provided in the operator's manual.
- B. The flight crews effectiveness in exercising command responsibilities and the coordination and communication between the flight crew and cabin attendants.



- C. The capability of each item of emergency equipment (whether it performed its intended functions). Did the emergency equipment cause any deficiencies or delays?
- D. All designated exits and slides were opened, deployed, and "prepared for use" within the appropriate time criteria. For a full-capacity evacuation demonstration, that all designated exits and slides were properly operated and all passengers and crewmembers were properly evacuated within 90 seconds. For a partial evacuation demonstration, that all designated exits were opened and slides were "prepared for use" within 15 seconds.
- E. For ditching demonstrations, that the cabin, passenger and cabin attendants were made ready for a water landing within 6 minutes. The life rafts were efficiently removed from storage, and all designated life vests, life rafts, and or slide rafts were properly inflated.

II. DETERMINING RESULTS OF DEMONSTRATIONS.

Failing to meet a specified time limit is automatic grounds for an unsatisfactory demonstration. Deficiencies in other areas such as crewmember effectiveness, or equipment malfunctions that occur even when timing criteria is met, may be grounds for determining the demonstration unsatisfactory. The severity of the deficiency and the basic cause must be carefully considered. If the cause of a relatively severe deficiency was due to improper company training, procedures, or maintenance, the demonstration should be judged as unsatisfactory. For example, if all emergency lighting failed to illuminate due to a maintenance problem, there is sufficient grounds for determining the demonstration unsatisfactory. Minor deficiencies can usually be resolved with responsible company personnel without having to declare the demonstration unsatisfactory.

SECTION 4. REPORTING EVACUATION DEMONSTRATIONS

I. GENERAL.

The team leader is responsible for preparing and distributing the emergency evacuation or ditching demonstration report. The report shall include at least the following:

A NCAA Form FSS-OPS-FORM011 , Emergency Evacuation/Ditching Demonstration Report (figure 001), is required for each demonstration attempt. For example, if two demonstrations are unsuccessful and a third is satisfactory, three forms shall be completed and submitted as part of the demonstration report package.

- A. The passenger information-briefing card required by NAM-CAR shall be attached to the report.



- B. A diagram of the aircraft is required, including emergency equipment, exits, exits used, the number of approved passenger seats, and the location of seats which were used by cabin attendants.
- C. A list of names and speciality of each member of the NCAA team.

NCAA FORM FSS-OPS-FORM011 The Emergency Evacuation/Ditching Demonstration Report form, FSS-OPS-FORM011 (see figure 001) shall be completed in accordance with the following instructions:

BLOCK NUMBER: 1

DEMONSTRATION: Fill in date and time of the demonstration (use 24-hour time).

BLOCK NUMBER: 2

DEMONSTRATION: Check results of the demonstration (Sat or Unsat).

BLOCK NUMBER: 3

DEMONSTRATION: Fill in full and proper name of the operator and its assigned designator.

BLOCK NUMBER: 4

DEMONSTRATION: Complete aircraft make, model, series, and registration number (for example: A300 (ABC-123)).

BLOCK NUMBER: 5

DEMONSTRATION: Fill in names and titles of NCAA team members.

BLOCK NUMBER: 6

DEMONSTRATION: Check the appropriate block for the type of demonstration. Both an aborted takeoff and ditching demonstration block may be checked, if applicable.

BLOCK NUMBER: 7

DEMONSTRATION: Check the reasons for conducting the demonstration.

BLOCK NUMBER: 8

DEMONSTRATION: Enter the total number of flightcrew, cabin attendants, and passengers aboard the aeroplane.

BLOCK NUMBER: 9

DEMONSTRATION: Check the applicable NAM-CARs



BLOCK NUMBER: 10

DEMONSTRATION: List each exit used and the number of persons who evacuated from that exit (for example, LF3/46).

BLOCK NUMBER: 11

DEMONSTRATION: Check the appropriate block for the type of slide used.

BLOCK NUMBER: 12

DEMONSTRATION: Enter the total elapsed time in the appropriate block.

BLOCK NUMBER: 13

DEMONSTRATION: Check the appropriate box that describes the aeroplane location.

BLOCK NUMBER: 14-20

DEMONSTRATION: Check the appropriate box (Sat or Unsat).

BLOCK NUMBER: 21

DEMONSTRATION: Briefly describe how non-designated exits were blocked (for example, exits were blocked with red lights).

BLOCK NUMBER: 22

DEMONSTRATION: Briefly describe how the demonstration was initiated (for example, deactivated the normal source of power).

BLOCK NUMBER: 23

DEMONSTRATION: Remarks must reference the appropriate block number. More than one line may be used for one item. Comments must be listed for each unsatisfactory item.

BLOCK NUMBER: 24

DEMONSTRATION: The team leader signs this report and the General Manager Safety initials it.

II. DISTRIBUTION.

After the Director of Safety manager reviews and initials the report, a copy shall be forwarded to the Director of Civil Aviation. The original package shall be retained in the CHO file.



**Namibia Civil Aviation
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ADVISORY PAMPHLET

**Emergency Evacuation and
Ditching Demonstrations**

FIGURE 001

EMERGENCY EVACUATION / DITCHING DEMONSTRATION REPORT
FSS-OPS-FORM 011

Instructions for Use:

Attach briefing card and as required by the applicable NAMCARS (of Aircraft), and diagram of aircraft showing location of cabin crew seats, emergency equipment, and exits used for the demonstration (LOPA for Large aircraft).

<p>1. Date and Time of Demonstration</p>	<p>2. Results</p> <p>A. <input type="checkbox"/> Satisfactory</p> <p>B. <input type="checkbox"/> Unsatisfactory</p>						
<p>3. Name of Operator and Designator</p>	<p>4. Make, Model, Series, and Registration Number</p>						
<p>5. Name and title of team members</p>	<p>7. Reason for Demonstration</p> <p>A. <input type="checkbox"/> Initial Type Certification</p> <p>B. <input type="checkbox"/> New Aircraft Type</p> <p>C. <input type="checkbox"/> Increase in Seating Capacity</p> <p>D. <input type="checkbox"/> Change in Cabin Configuration</p> <p>E. <input type="checkbox"/> Change in CC Number, Duties, Location, or procedures</p> <p>F. <input type="checkbox"/> Change in Exit Number Location, or Opening Mechanism</p> <p>G. <input type="checkbox"/> New Operator Certification</p> <p>H. <input type="checkbox"/> Other (Specify)</p>						
<p>6. Type of Demonstration</p> <p>A. <input type="checkbox"/> Aborted Takeoff Full-scale</p> <p>B. <input type="checkbox"/> Aborted Takeoff Partial</p> <p>c. <input type="checkbox"/> Ditching</p>	<p>9. Applicable regulations:</p> <p><input type="checkbox"/> NAMCAR PART 121</p> <p><input type="checkbox"/> NAMCAR PART 127</p> <p><input type="checkbox"/> NAMCAR PART 133</p> <p><input type="checkbox"/> NAMCAR PART 135</p>						
<p>8. Number of Persons on Board</p> <p>a. Cabin crew members.....</p> <p>b. Flight crew members.....</p> <p>c. Passengers.....</p> <p>d. Total.....</p>	<p>10. EXIT USED *</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 33%;">A</td> <td style="width: 33%;">B</td> <td style="width: 33%;">C</td> </tr> <tr> <td>D</td> <td>E</td> <td>F</td> </tr> </table>	A	B	C	D	E	F
A	B	C					
D	E	F					



		11. TYPES OF SLIDES USED	
		A	<input type="checkbox"/> INFLATABLE
		B	<input type="checkbox"/> NON INFLATABLE
		C	<input type="checkbox"/> SLIDE RAFT
12. Time Record			
A.	<input type="checkbox"/>	Aborted Takeoff Full Scale..... sec	
B.	<input type="checkbox"/>	Aborted Partial Takeoffsec	
C.	<input type="checkbox"/>	Ditching..... min	
COMMENT RECORD			
13. Aeroplane location		17. Crew Knowledge	
A.	<input type="checkbox"/> Hangar	B.	<input type="checkbox"/> Ramp
		A.	<input type="checkbox"/> Satisfactory B <input type="checkbox"/> Unsatisfactory
14. Operator Safety Precautions		18. Equipment Reliability	
A.	<input type="checkbox"/> Satisfactory B. <input type="checkbox"/> Unsatisfactory	A.	<input type="checkbox"/> Satisfactory B. <input type="checkbox"/> Unsatisfactory
15. Equipment Inspections - Evacuation		19. Operator Procedures	
A	<input type="checkbox"/> Satisfactory B. <input type="checkbox"/> Unsatisfactory	A.	<input type="checkbox"/> Satisfactory B. <input type="checkbox"/> Unsatisfactory
16. Equipment Inspections - Ditching		20. Other (Record on block 23)	
A.	<input type="checkbox"/> Satisfactory B. <input type="checkbox"/> Unsatisfactory	A.	<input type="checkbox"/> Satisfactory B <input type="checkbox"/> Unsatisfactory
*Exit Code:			
L = Left; R = Right; W = Window; F = Floor Level; VS = Ventral Stairs; T = Tail, C = Cockpit, U = Upper Deck; B = Below Main Cabin Floor.			
Number the Exits from Cockpit to Tail.			



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**Emergency Evacuation and
Ditching Demonstrations**

EMERGENCY EVACUATION DITCHING/DEMONSTRATION REPORT - BACK PAGE	
21. How Non-designated Exits were blocked:	
22. Initiation Signal:	
23. Discrepancies/Recommendations: (Make Reference to Appropriate Blocks)	
24. Authority Office Action	Person responsible for safety oversight:

Recommendations/observations:.....

Inspector's Name	Signature & ASI Stamp	Date
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SENIOR MANAGER OF FLIGHT OPERATIONS REMARKS:

.....

Approved Not Approved

Signature, Stamp and Date: