

# AVOIDANCE OF FATIGUE IN AIRCREW

SINGLE PILOT IFR / VFR
TWO PILOT IFR

## PART 1 DOMESTIC OPERATIONS

Second Edition March 2013

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## **Standards Document**

# AVOIDANCE OF FATIGUE IN AIRCREW

## Part 1 Domestic Operations

SD - AFA

#### **Civil Aviation Authority of Fiji**

Private Mail Bag, NAP 0354 Nadi International Airport Fiji

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#### **PREFACE**

#### General

Fiji's National Aviation Law consists of a three tier or triple system regulatory system, comprising Acts, Regulations and Standards Documents; the purpose of which is to ensure, where deemed appropriate, compliance and conformance with ICAO Standards and Recommended Practices (SARPS).

The 'three tier' or 'triple system' regulatory system represents Fiji's Primary Legislation System and Specific Operating Regulations to meet Critical Elements CE1 and CE2 of ICAO's Eight Critical Element of a safety oversight system

Standards Documents (SD) are issued by the Civil Aviation Authority of Fiji under the provision of Section 14 (3) (b) of the Civil Aviation Authority Act 1979 (CAP 174A)

Where appropriate, the SD also contains technical guidance (Critical Element CE5) on standards, practices, and procedures that are acceptable to the Authority.

Notwithstanding the above, and where specifically indicated in this Standards Document that such a provision is available, consideration may be given to other methods of compliance that may be presented to the Authority provided they have compensating factors that can demonstrate a level of safety equivalent to or better than those prescribed herein. Accordingly, the Authority will consider each case based on its own merits holistically in the context of and relevancy of the alternative methods to the individual applicant.

When new standards, practices, or procedures are determined to be acceptable, they will be added to this document.

#### **Purpose**

This Standards Document, Avoidance of Fatigue in Aircrew, is hereby issued by the Civil Aviation Authority of Fiji pursuant to ANR 49 (4), of the Air Navigation Regulations 1981 (as amended). This Document is intended for use by the Authority, applicants, and holders of an Air Operator Certificate, and their staff.

#### **Change Notice**

THERESA LEVESTAM
ACTING CHIEF EXECUTIVE

This Standards Document is the original issue and replaces Minimum Requirements Document 9, which is cancelled on the effective date of this document, 1<sup>st</sup> July 2004. It has been developed to support the 2004 amendment to regulation 49 (4) regarding the operator's obligation to comply with standards notified by the Authority and is the means by which such notification is given.

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#### **AMENDMENT RECORD**

The following space is provided to keep a record of all amendments.

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#### SECTION 1 - SINGLE PILOT VFR/ TWO PILOT IFR

#### 1 APPLICATION AND RESPONSIBILITY

- 1.1 These Standards are applicable to all aircraft operations by organisations domiciled in Fiji conducted as public transport flights and aerial work, unless this oversight is retained by the State of Registry of a foreign registered aircraft.
- 1.2 As indicated earlier, this document will be provided in two Parts. Part 1 is applicable to domestic operations. Part 2 will be applicable to international operations.
- 1.3 The operator of an aircraft to whom these Standards apply shall not cause or permit that aircraft to fly unless a scheme, acceptable to the Authority, has been established for the management of the flight and duty times and rest periods of that aircraft's flight crew members.
- 1.4 A flight crew member shall not fly, and an operator shall not cause or permit that person to fly if the flight crew member is suffering from, or, considering the circumstances of the particular flight to be undertaken, is likely to suffer from, fatigue or illness which may affect judgment or performance to the extent that safety may be impaired.
- 1.5 A flight crew member shall not act, and an operator shall not cause that flight crew member to act in contravention of the approved scheme.
- The operator is expected to plan their scheme in accordance with the requirements of this document. It is recognised that these Standard provisions will not necessarily be completely adaptable to every type of operation. Operators may, therefore, have variations from the Standard provisions included in their individual schemes. However, approval will only be granted where the operator can show that any proposed variation will ensure an equivalent level of protection against fatigue. Any variation from these Standards will be published in an amendment to this document as an Appendix that specifies the variation and the conditions under which it was found to be acceptable.
- 1.7 The definition of 'Rest' used in this document is the same as that used by ICAO in Annex 6 for 'Rest Period', that is 'Any period of time on the ground during which a flight crew member is relieved of all duties by the operator'.

But ICAO further 'defines' rest at Annex 6 Attachment A Flight Time and Flight Duty Period Limitations where paragraph 2.3 reads The definition of rest period implies the absence of duty and is intended for the purpose of recovering from fatigue: the way in which this recovery is achieved is the responsibility of the individual.

The Authority believes that this should be taken one step further in that, where a person is not required to carry out any duty before reporting for a flight duty period, then the individual has the responsibility of ensuring that that period is used to the best possible effect to prepare themselves for the forthcoming flight duty period and to do all that is appropriate to mitigate the likelihood of fatigue during the flight duty period from accumulating to the extent that the safety of flight could be jeopardized.

#### 2 DEFINITIONS

#### Aerodrome - Airport

A defined area on land or water [including any buildings, installations and equipment] intended to be used either wholly or in part for the arrival, departure and surface movement of aircraft.

#### **Authority**

Means the Civil Aviation Authority of Fiji established under the Civil Aviation Authority of the Fiji Act (as amended).



#### Base

Means a place designated by the operator and may be a permanent base, or a temporary location for a specified time.

#### Bunk

A sleeping berth, a horizontal shelf-like bed.

#### Cabin crew member

A crew member who performs, in the interest of safety of passengers, duties assigned by the operator or the pilot-in-command of the aircraft, but who shall not act as a flight crew member.

#### Crew

Means the persons employed or engaged in an aircraft in flight on the operation of the aircraft.

#### **Duty Cycle**

A rostered sequence of flights or flight starting at a base and ending at the same base.

#### **Duty Period**

A time during which a flight crew member carries out any duty required by their employer.

#### Flight crew member

A licensed flight crew member charged with duties essential to the operation of an aircraft during a flight duty period.

#### Flight Deck Duty [Augmented Crew]

The time a pilot is seated at the controls of an aircraft during a Flight Duty Period, and has the same limits as Flight Time.

#### Flight Duty Period

The total time from the moment a flight crew member commences duty, and prior to making a flight or a series of flights to the moment the flight crew member is relieved of all duties. An appropriate time acceptable to the Authority shall be allowed for pre-flight and post-flight duties.

#### Flight Time

The total time from the moment an aircraft first moves for the purpose of taking off until the moment it finally comes to rest at the end of the flight i.e. "chock to chock".

#### Local Day

A continuous period of 24 hours beginning at midnight local time.

#### Local Night

A period of 8 hours falling between 2000 and 0600 hours local time.

#### Local Time

Local standard time or local daylight saving time.

#### Night

Means the time between 15 minutes after sunset and 15 minutes before sunrise. Sunset and sunrise being determined at the surface. [Applicable to Fiji . 15 min. varies with latitude]

#### Operator

A person, organization or enterprise engaged in or offering to engage in an aircraft operation.

#### Pilot-In-Command

The pilot designated by the operator, or in the case of general aviation, by the owner as being in command and charged with the safe conduct of a flight.



#### **Positioning**

The practice of transferring crew from one place to another as passengers in surface or air transport, either before or after a flight duty period.

#### Rest facilities

An adequate in-flight rest facility is a segregated area incorporating a bunk or equivalent, conducive to rest and acceptable to CAAF. Segregated First or Business class seats may be considered acceptable in certain circumstances.

A suitable ground rest facility is an area conducive to rest with comfortable seating, and toilet facilities available.

#### Rest Period

Any period of time on the ground during which a flight crew member is relieved of all duties by the operator.

#### Roster

A pre-planned pattern of work.

#### **Roster Duration**

The minimum published rostered period shall be for 14 days.

#### Split Duty

Two duty periods separated by a rest period of less than 10 hours.

#### Suitable accommodation

Accommodation provided by the operator for flight crew members must be conducive to rest with control of heat and light and bathroom facilities available. In isolated circumstances where this standard is unavailable, the best available should be provided.

#### Standby Duty

A period of time when an operator places restraints on a flight crew member for a nominated period so that the flight crew member will be available for duty if required.

#### 3 GENERAL RESTRICTIONS

- 3.1 When, during a particular duty period, a flight crew member is engaged in air operations that have differing flight time limitations, the most restrictive flight time will apply.
- 3.2 The operator shall consider the flight and duty times in this document as the maximum and further consideration may need to be given in multi sector, single pilot IFR, time zone changes and or other than normal daytime work hour operations. The operator's scheme may need to show decreased duty times and/or increased rest periods if one or a combination of the above are included in their operations.
- 3.3 **Maximum Duty Times** 100 hours in any 14 consecutive days and 190 hours in any 28 consecutive days.
- 3.4 Flight crew members not primarily engaged on flying duties are exempt from the limitations prescribed in 3.3 above other than for the 14 days prior to and during a Flight Duty Period or series of Flight Duty Periods.

#### 4 TRAVELLING / DUTY TIME

- 4.1 When a flight crew member is transported by operator provided transport to and from operator provided accommodation the following apply:
  - 1) Any travel time in excess of two hours before a flight duty period shall included that excess time in that flight duty period.
  - 2) Any travel time at the completion of a flight duty period shall not be included as any part of that flight duty period or rest period.



#### 5 POSITIONING

- 5.1 When positioning precedes a flight duty period and they are not separated by a rest period, the total time should be subject to the limitations placed upon a single flight duty period. The time spent on positioning shall also be included in the cumulative total of duty hours.
- 5.2 When positioning follows a flight duty period and they are not separated by a rest period, only the time of the flight duty period shall be subject to the limitations placed upon a single flight duty period. The total time spent on duty shall also be included in the cumulative total of duty hours. If the total time on duty exceeds 18 hours in duration the ensuing rest period shall include one local night.
- 5.3 When positioning is separated from a flight duty period by a rest period, half of the time spent on positioning shall be included in the cumulative totals of duty hours. If the positioning exceeds 18 hours in duration the ensuing rest period shall include one local night.

#### 6 PILOT-IN-COMMAND DISCRETION TO EXTEND FLIGHT DUTY PERIOD

- A pilot-in-command is permitted, with the concurrence of his flight crew, to extend a flight duty period for up to 2 hours beyond the maximum that may be scheduled provided. In all such cases where this is done the pilot-in-command shall report the circumstances to his employer. When the extension exceeds 1 hour due to circumstances beyond the control of the pilot-in-command and the operator, then both shall submit a written report to the Authority within 7 days. The operator's scheme should include guidance to the pilot-in-command on the limits within which discretion to extend a flight duty period may be exercised. The provisions for a pilot-in-command of an augmented crew are specified at 13.2 and 13.3
- An extension of 2 hours beyond the flight duty period normally permitted shall be the maximum except in cases of a serious threat to life.
- A pilot-in-command may further extend a flight time and/or flight duty period if deemed necessary for other than commercial reasons but must be assured that the circumstances warrant such action and he is satisfied that the risk of not doing so is greater than undertaking the extension. Both the pilot-in-command and the operator shall submit a written report to the Authority within 7 days.

#### 7 STANDBY DUTY

#### 7.1 The operator shall:

1) apply the following limits on standby periods for flight crew members;

Nature of Duty	Maximum Standby Duty Period			
Standby	12 Hours			
Standby plus flight Duty period	20 Hours			

Table 1 - Standby Duty

- 2) ensure that suitable ground rest facilities are provided if:
  - i.) A flight crew member is required to be on standby away from base; or
  - ii.) Standby is undertaken at an airport.
- 3) ensure that if a flight crew member is assigned standby immediately after a duty period and without intervening rest, the duty and the subsequent time on standby are totalled and are included in:
  - i.) Any immediately subsequent flight duty period; or
  - ii.) Any immediately subsequent duty period.
- 4) ensure that when a flight crew member completes standby without being called for duty the crew member completes a rest period of at least 10 hours before commencing a subsequent duty or standby period.



7.2 When the standby is at the crew member's home or suitable accommodation, only 50% of the standby time is to be counted towards the cumulative duty for calculating the following rest period and cumulative duty times.

#### 8 SPLIT DUTY

When a flight duty period consists of 2 duties separated by a rest period, defined and notified to the flight crew member in advance, an operator may increase the allowable planned flight duty period prescribed as appropriate in accordance with Table 2 below, subject to the conditions prescribed in sub-paragraph 8.4 2), 3) and 4) below.

Consecutive Hours of Rest period	Increase in Flight Duty Period			
0 – 2 hrs 59 mins.	NIL			
3 – 6 hrs 59 mins.	½ length of rest period			
7 – 9 hrs 59 mins.	2/3 length of rest period or 1½ length of rest period if at least 7 hours of the rest period fall between 2000 – 0800 local time where the rest period occurs			

Table 2 - Split Duty

- 8.2 The operator shall ensure that the parts of the flight duty period before and after the rest period do not exceed 10 hours, and the total flight duty period, as increased in accordance with Table 2 above, does not exceed 20 hours.
- 8.3 The operator shall ensure that split duty is not combined with augmented flight crew.
- 8.4 The operator shall ensure that:
  - 1) If the rest period is 4 hours or more or covers 3 hours or more of the period 2200 0600 local time of the place where it occurs, suitable accommodation is provided. In all other circumstances suitable ground rest facilities must be provided:
  - 2) With regard to the cumulative duty periods, if the rest period is less than 8 hours, the full period of the rest period is accountable. If the period is 8 hours or more, 50% of the rest period is accountable;
  - Only one rest period is used within one flight duty period;
  - 4) If the total travelling time in both directions between the place of duty and the rest facility or suitable accommodation exceeds one hour, any traveling time in excess of the 1 hour is deducted from the period for the purposes of calculating the increased flight duty period; and
  - 5) The time difference between the place of the beginning of the duty and the place at which the rest period is taken is not greater than two hours, discounting crossing the International Date Line.

#### 9 MINIMUM REST PERIODS

- 9.1 Minimum rest periods that shall be provided for flight crew members called upon to undertake a flight duty period shall be not less than 10 hours or not less than the preceding duty period which ever is the greater. The rest period shall be increased by 2 hours if any part of a duty period falls between 2200 and 0559 local time calculated from the initial departure port of that duty period.
- 9.2 The operator shall ensure that the minimum rest periods above are increased, if required to achieve not less than:
  - 1) 8 local days in each 28 consecutive days free of all duty; and either
  - 2) One 24-hour period including a local night within 7 consecutive days, or



- 3) One 36-hour period within 10 consecutive days which includes two periods between the hours of 2300 and 0400 local standard time.
- 9.3 The operator shall ensure that if any part of three consecutively planned flight duty periods in excess of 8 hours not separated by a day off or other duty in any 7 consecutive days, and any part falls within 2400 0559 local time at the reporting place, the subsequent rest period shall not be less than 48 hours.
- 9.4 When, at the end of a duty period, the requirements of two or more rest periods coincide, the longest rest period applicable in the particular circumstances shall be taken.

#### 10 PILOT-IN-COMMAND DISCRETION TO REDUCE A REST PERIOD

- 10.1 A pilot-in-command is permitted, with the concurrence of the relevant flight crew members, to operate with a scheduled rest period reduced to below the minimum required **provided circumstances warrant such action and the pilot-in-command is satisfied the flight can be operated safely**. The exercise of such discretion however, shall be considered exceptional and shall not be used to reduce successive rest periods.
- 10.2 Any reduction in a rest period should however, allow flight crew members to obtain at least 10 hours at the accommodation where rest is taken. If a reduced rest period is initiated by the pilot-in-command, he or she shall submit a written report to the operator; and if the reduction exceeds two hours then both the operator and the pilot-in-command shall submit a written report to the Authority within 7 days. Except in cases of serious threat to life, a rest period should not be decreased if it immediately follows an extended duty period.
  - **NOTE:** "Discretion Reports" whether involving extension of a duty period or reduction of a rest period shall be submitted in the form of the example given in the Appendix to this document. The Authority will use these reports when assessing the realism of particular schedules.

#### 11 REST FACILITIES

11.1 When at the end of a duty period, a rest period is given at any place other than the flight crew member's base; suitable accommodation shall be provided.

#### 12 FLIGHT AND DUTY TIME LIMITATIONS

#### 12.1 Flight Time

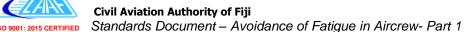
An operator shall not roster a pilot in excess of 8 hours flight time in any one flight duty period. A duty period already commenced may be extended in flight time to 9 hours to complete a disrupted schedule.

- 12.2A pilot shall not fly and an operator shall not roster a pilot to fly in excess of:
  - a) 40 hours in any 7 consecutive days
  - b) 100 hours in any 28 consecutive days:
  - c) 1000 hours in any 365 consecutive days.

#### 12.3 Flight Duty Period

LOCAL TIME	MAXIMUM FLIGHT DUTY PERIOD					
REPORT FOR	SECTOR	SECTOR	SECTOR	SECTOR	SECTOR	SECTOR
FLIGHT DUTY	1	2	3	4	5	6
0600-1359	12:30	12:30	12	12	12	12
1400-2159	11:30	11:30	11	11	10:30	10
2200-0559	11	10:30	10:30	10:30	10	10

Table 3 - Flight Duty Period





- 12.4 The maximum sector limit does not apply to pilots of aircraft up to a maximum weight of 5700Kg. The six-sector column duty time limits are applicable.
- 12.5 A flight duty period is the total time from the moment a flight crew member commences duty, and prior to making a flight or a series of flights to the moment the flight crew member is relieved of all duties. An appropriate time acceptable to the Authority shall be allowed for pre-flight and post-flight duties.

#### 13 RECORD KEEPING

- 13.1 The operator of an aircraft performing air operations shall keep an accurate record of flight and duty times of each flight crew member flying in the aircraft and retain these records for a period of 12 months from the date of the flights referred to therein. The flight and duty time records shall consist of:
  - 1) Duration of each duty period and function performed during the period;
  - 2) Duration of each duty period whether or not it included a flight duty period;
  - 3) Duration of each rest period prior to a duty or standby duty period:
  - 4) Cumulative duty times.



#### **SECTION 2 - SINGLE PILOT IFR**

#### 1 GENERAL RESTRICTIONS

- 1.1 When, during a particular duty period, a flight crew member is engaged in air operations that have differing flight time limitations, the most restrictive flight time will apply.
- 1.2 The operator shall consider the flight and duty times in this document as the maximum and further consideration may need to be given in multi sector, single pilot IFR, time zone changes and or other than normal daytime work hour operations. The operator's scheme may need to show decreased duty times and/or increased rest periods if one or a combination of the above are included in their operations.
- 1.3 **Maximum Duty Times** 100 hours in any 14 consecutive days and 190 hours in any 28 consecutive days.
- 1.4 Flight crew members not primarily engaged on flying duties are exempt from the limitations prescribed in 3.3 above other than for the 14 days prior to and during a Flight Duty Period or series of Flight Duty Periods.
- 1.5 During any duty period exceeding 4 hours he shall have a rostered meal period on the ground of not less than 30 minutes free of duty. Provision shall be made for such a meal period within the first 5 hours of a duty period and thereafter at intervals of not more than 4 hours from the completion of the preceding meal period.
- 1.6 When he has flown more than 6 hours or been on duty more than 11 hours in any 24 consecutive hours, he shall have on completion of that duty period, a rest of not less than 12 consecutive hours including the hours between 12 pm and 6 am, or extended to include that period up to a maximum of 24 consecutive hours.
- 1.7 When he has flown more than 12 hours or been on duty more than 22 hours in any 48 consecutive hours, he shall have on completion of that duty period, a rest period of not less than 24 consecutive hours.

#### 2 TRAVELLING / DUTY TIME

- 2.1 When a flight crew member is transported by operator provided transport to and from operator provided accommodation the following apply:
  - 1) Any travel time in excess of two hours before a flight duty period shall included that excess time in that flight duty period.
  - 2) Any travel time at the completion of a flight duty period shall not be included as any part of that flight duty period or rest period.

#### 3 POSITIONING

- 3.1 When positioning precedes a flight duty period and they are not separated by a rest period, the total time should be subject to the limitations placed upon a single flight duty period. The time spent on positioning shall also be included in the cumulative total of duty hours.
- 3.2 When positioning follows a flight duty period and they are not separated by a rest period, only the time of the flight duty period shall be subject to the limitations placed upon a single flight duty period. The total time spent on duty shall also be included in the cumulative total of duty hours. If the total time on duty exceeds 18 hours in duration the ensuing rest period shall include one local night.
- 3.3 When positioning is separated from a flight duty period by a rest period, half of the time spent on positioning shall be included in the cumulative totals of duty hours. If the positioning exceeds 18 hours in duration the ensuing rest period shall include one local night.

#### 4 PILOT-IN-COMMAND DISCRETION TO EXTEND FLIGHT DUTY PERIOD

4.1 A pilot-in-command is permitted to extend a flight duty period for up to 30 minutes beyond the maximum that may be scheduled provided. In all such cases where this is done the pilot-in-



command shall report the circumstances to his employer. When the extension exceeds 30 minutes due to circumstances beyond the control of the pilot-in-command and the operator, then both shall submit a written report to the Authority within 7 days. The operator's scheme should include guidance to the pilot-in-command on the limits within which discretion to extend a flight duty period may be exercised.

- 4.2 An extension of 1 hour beyond the flight duty period normally permitted shall be the maximum except in cases of a serious threat to life.
- 4.3 A pilot-in-command may further extend a flight time and/or flight duty period if deemed necessary for other than commercial reasons <u>but must be assured that the circumstances warrant such action and he is satisfied that the risk of not doing so is greater than undertaking the extension</u>. Both the pilot-in-command and the operator shall submit a written report to the Authority within 7 days.

#### 5 STANDBY DUTY

- 5.1 The operator shall:
  - 5) apply the following limits on standby periods for flight crew members;

Nature of Duty	Maximum Standby Duty Period
Standby	12 Hours
Standby plus flight Duty period	20 Hours

Table 1 – Standby Duty

- 6) ensure that suitable ground horizontal rest facilities are provided if:
  - iii.) A flight crew member is required to be on standby away from base; or
  - iv.) Standby is undertaken at an airport.
- 7) ensure that if a flight crew member is assigned standby immediately after a duty period and without intervening rest, the duty and the subsequent time on standby are totalled and are included in:
  - iii.) Any immediately subsequent flight duty period; or
  - iv.) Any immediately subsequent duty period.
- 8) ensure that when a flight crew member completes standby without being called for duty the crew member completes a rest period of at least 10 hours before commencing a subsequent duty or standby period.
- 5.2 When the standby is at the crew member's home or suitable accommodation, only 50% of the standby time is to be counted towards the cumulative duty for calculating the following rest period and cumulative duty times.

#### 6 SPLIT DUTY

6.1 When a flight duty period consists of 2 duties separated by a rest period, defined and notified to the flight crew member in advance, an operator may increase the allowable planned flight duty period prescribed as appropriate in accordance with Table 2 below, subject to the conditions prescribed in sub-paragraph 8.4 2), 3) and 4) below.

Consecutive Hours of Rest period	Increase in Flight Duty Period			
0 – 2 hrs 59 mins.	NIL			
3 – 6 hrs 59 mins.	½ length of rest period			
7 – 9 hrs 59 mins.	2/3 length of rest period or 1½ length of rest period if at least 7 hours of the rest period fall between 2000 – 0800 local time where the rest period occurs			



Table 2 - Split Duty

- 6.2 The operator shall ensure that the parts of the flight duty period before and after the rest period do not exceed 10 hours, and the total flight duty period, as increased in accordance with Table 2 above, does not exceed 20 hours.
- 6.2 The operator shall ensure that split duty is not combined with augmented flight crew.
- 6.3 The operator shall ensure that:
  - 6) If the rest period is 4 hours or more or covers 3 hours or more of the period 2200 0600 local time of the place where it occurs, suitable accommodation is provided. In all other circumstances suitable ground rest facilities must be provided;
  - 7) With regard to the cumulative duty periods, if the rest period is less than 8 hours, the full period of the rest period is accountable. If the period is 8 hours or more, 50% of the rest period is accountable;
  - 8) Only one rest period is used within one flight duty period;
  - 9) If the total travelling time in both directions between the place of duty and the rest facility or suitable accommodation exceeds one hour, any traveling time in excess of the 1 hour is deducted from the period for the purposes of calculating the increased flight duty period; and
  - 10) The time difference between the place of the beginning of the duty and the place at which the rest period is taken is not greater than two hours, discounting crossing the International Date Line.

#### 7 MINIMUM REST PERIODS

- 7.1 Minimum rest periods that shall be provided for flight crew members called upon to undertake a flight duty period shall be not less than 10 hours or not less than the preceding duty period which ever is the greater. The rest period shall be increased by 2 hours if any part of a duty period falls between 2200 and 0559 local time calculated from the initial departure port of that duty period.
- 7.2 The operator shall ensure that the minimum rest periods above are increased, if required to achieve not less than:
  - 4) 8 local days in each 28 consecutive days free of all duty; and either
  - 5) One 24 hour period including a local night within 7 consecutive days, or
  - 6) One 36 hour period within 10 consecutive days which includes two periods between the hours of 2300 and 0400 local standard time.
- 7.3 The operator shall ensure that if any part of three consecutively planned flight duty periods in excess of 8 hours not separated by a day off or other duty in any 7 consecutive days, and any part falls within 2400 0559 local time at the reporting place, the subsequent rest period shall not be less than 48 hours.
- 7.4 When, at the end of a duty period, the requirements of two or more rest periods coincide, the longest rest period applicable in the particular circumstances shall be taken.

#### 8 PILOT-IN-COMMAND DISCRETION TO REDUCE A REST PERIOD

- 8.1 A pilot-in-command is permitted to operate with a scheduled rest period reduced to below the minimum required provided circumstances warrant such action and the pilot-in-command is satisfied the flight can be operated safely. The exercise of such discretion however, shall be considered exceptional and shall not be used to reduce successive rest periods.
- 8.2 Any reduction in a rest period should however, allow flight crew members to obtain at least 10 hours at the accommodation where rest is taken. If a reduced rest period is initiated by the pilot-in-command, he or she shall submit a written report to the operator; and if the reduction exceeds two hours then both the operator and the pilot-in-command shall submit a written report to the Authority



within 7 days. Except in cases of serious threat to life, a rest period should not be decreased if it immediately follows an extended duty period.

**NOTE:** "Discretion Reports" whether involving extension of a duty period or reduction of a rest period shall be submitted in the form of the example given in the Appendix to this document. The Authority will use these reports when assessing the realism of particular schedules.

#### 9 REST FACILITIES

9.1 When at the end of a duty period, a rest period is given at any place other than the flight crew member's base; suitable accommodation shall be provided.

#### 10 FLIGHT AND DUTY TIME LIMITATIONS

#### 10.1 Flight Time

An operator shall not roster a pilot in excess of 6 hours flight time in any one flight duty period. A duty period already commenced may be extended in flight time to 6 hours and 30 minutes to complete a disrupted schedule.

- 10.2 A pilot shall not fly and an operator shall not roster a pilot to fly in excess of:
  - d) 6 hours in any one duty period
  - e) 30 hours in any 7 consecutive days.
  - f) 90 hours in any 28 consecutive days.
  - g) 250 hours in any 90 consecutive days.
  - h) 1000 hours in any 365 consecutive days.

#### 10.3 Flight Duty Period

LOCAL TIME	MAXIMUM FLIGHT DUTY PERIOD					
REPORT FOR FLIGHT DUTY	SECTOR	SECTOR	SECTOR	SECTOR	SECTOR	SECTOR
	1	2	3	4	5	6
0600-1359	11	11	11	10	10	10
1400-2159	11	11	11	10;30	10:30	10
2200-0559	11	11	10:30	10	10	10

Table 3 - Flight Duty Period

- 10.4 The maximum sector limit does not apply to pilots of aircraft up to a maximum weight of 5700Kg. The six sector column duty time limits are applicable.
- 10.5 A flight duty period is the total time from the moment a flight crew member commences duty, and prior to making a flight or a series of flights to the moment the flight crew member is relieved of all duties. An appropriate time acceptable to the Authority shall be allowed for pre-flight and post-flight duties.

#### 11 RECORD KEEPING

- 11.1The operator of an aircraft performing air operations shall keep an accurate record of flight and duty times of each flight crew member flying in the aircraft and retain these records for a period of 12 months from the date of the flights referred to therein. The flight and duty time records shall consist of:
  - 5) Duration of each duty period and function performed during the period;
  - 6) Duration of each duty period whether or not it included a flight duty period;
  - 7) Duration of each rest period prior to a duty or standby duty period;



8) Cumulative duty times.

#### **APPENDIX 1**

	PILOT-IN-C	OMMANDS'	DISCRETION	REPORT - I	EXTENSION OF FI	DP / REDUCTIO	ON OF REST PERIO	OD*  * Deleted as required
Complete as	(2) For ex	tension of DP	- Pilot-in-comma	and to comple	ed in both GMT and I te parts A, B & D; Op complete parts A, C &	erator to complete		
			arate reports for			a B, operator part		
	CRETIONARY EXTENS		Y AND REDUC	TION OF PRI	E-FLIGHT REST OF	LESS THAN 30 N	INUTES SHOULD B	E RECORDED ON THE
PART A	Operator :		A/C Ty	pe	FLT N	Numbers :	Date(s) :	
	Crew:							
PART B		Planned Sch	edule				Actual	•
		Place	GMT	Local		Place	GMT	Local
	On Duty (Sign On)				Duty started			
	Depart				Departed			
	Arrive				Arrived			
	Depart				Departed			
	Arrive				Arrived			
	Depart				Departed			
	Arrive				Arrived			
	Depart				Departed			
	Arrive				Arrived			
	Scheduled DP	hrs	mins		Actual DP		hrs mins	
	Max allowable DP	hrs	mins		Extension		hrs mins	
PART C		Place				GMT		Local
	Last duty started							
	Last duty ended							
	Actual start of next DP		hrs					
	Rest period reduced b				PART E	Operato	ors Remarks and Act	ion
PART D	Pilot -in-Commands'	Report/Justif						
1 Crew acclimatized to time zone YES/NO 2 (If relevant) Length of preceding rest HOURS				S	igned			
Signed			Status					
Date			Date					

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20 August 2019 13



#### **APPENDIX 2**

### PILOT-IN-COMMAND'S DISCRETION REPORT (To be completed in DUPLICATE)

NOTE: All times to be recorded as date/time six-figure groups, expressed in both GMT and Local Time.

Part A Operator Aircraft Type

Date:

Crew: Flight Number:

Part B Extension of Flight Duty Period (if appropriate)

VOYAGE DETAILS						
Schedule (Planned)				Actual		
	Place	GMT	Local		GMT	Local
Duty Start (Sign On)				Duty Started		
Depart				Departed		
Arrive				Arrived		
Depart				Departed		
Arrive				Arrived		
Depart				Departed		
Arrive				Arrived		
FDP to end				FDP ended		
Sch. FDP*				Actual FDP		

#### Crew Affected:

\*When scheduled (planned) flight duty period includes:

- a) In-flight relief, and/or
- b) Split Duty

Rest facilities and/or times rest begins and ends to be detailed in Part D of the form.

#### Part C Reduction of Pre-flight Rest Period (If appropriate)

Last Duty Started GMT/Local
Last duty Ended GMT/Local
Rest earned Hours

Calculated earliest next available GMT/Local

Actual start of next

Flight duty period (FDP)

Rest Period reduced by

Crew Affected



Part E

### **Civil Aviation Authority of Fiji**Standards Document – Avoidance of Fatigue in Aircrew- Part 1

Part D Report of Circumstances
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	Signed: Date:
Operator's Remarks and Action	on
	Signed:

Status: .....

Date: .....

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