## 中国民用航空局



## CAAC 适 航 指 令

## AIRWORTHINESS DIRECTIVE

本指令根据中国民用航空规章《民用航空器适航指令规定》(CCAR-39)颁发,内容涉及飞行安全,是强制性措施。如不按规定完成,有关航空器将不再适航。

编号: CAD2015-B757-03

修正案号: 39-8526

- 一. 标题: 适航限制-发动机和 APU 燃油截流阀-修订
- 二. 适用范围:

本适航指令适用于所有审定型别的波音B757-200, -200PF, -200CB, and -300系列飞机。

- 三. 参考文件:
  - 1. FAA AD 2015-19-04(2015 年 10 月 21 日生效);
- 四. 原因、措施和规定
- 1. 本指令是由一份关于在更换燃油滤清器过程中出现的燃油截流阀(shutoff valves)潜在失效的报告引起的。发布本指令的目的是对发动机和辅助动力装置(APU)的燃油截流阀潜在失效进行检测和纠正。这种情况下,可能导致发动机和APU的截断燃油功能失效,并且在某些起火的情况下无法控制并导致结构性失效。
- 2 除非已经完成,否则应采取以下措施:
- 2.1. 本指令生效起30天内,修订适用的维修或检查计划,根据本指令表1和表2对持续适航说明中的适航限制进行合并,增加适航限制Nos. 28-AWL-ENG和28-AWL-APU。对本指令表1和表2中提及的完成措施符合性时间为完成本段内要求的维修或检查计划版本

后的10天内。

本指令表1-发动机燃油截流阀(燃油翼梁活门<Spar Valve >)位置指示操作检查

Figure 1 to Paragraph (g) of This AD-Engine Fuel Shutoff Valve (Fuel Spar Valve) Position Indication Operational Check

AWL	Task	Interval	Applicabili	Description
No.			ty	•
28-A	ALI	DAILY	ALL	Engine Fuel Shutoff Valve (Fuel Spar Valve)
WL-E		INTERVAL	APPLICA	Position Indication Operational Check. Concern:
NG		NOTE: Not	BILITY	The fuel spar valve actuator design can result in
		required on	NOTE:	airplanes operating with a failed fuel spar valve
		days when	Only	actuator that is not reported. A latently failed fuel
		the airplane	applies to	spar valve actuator could prevent fuel shutoff to
		is not used	airplanes	an engine. In the event of certain engine fires, the
		in revenue	with an	potential exists for an engine fire to be
		service.	MA20A20	uncontrollable. Perform one of the following
		The check	27	checks/inspection of the fuel spar valve position
		must be	(S343T003	(unless checked by the flightcrew in a manner
		done before	-56) or	approved by the principal operations inspector).
		further	MA30A10	A. Operational check during engine shutdown 1.
		flight once	01	Do an operational check of the left engine fuel
		the airplane	(S343T003	spar valve actuator. a. As the L FUEL CONTROL
		is returned	-66)	switch on the quadrant control stand is moved to
		to revenue	actuator	the CUTOFF position, verify the left SPAR
		service	installed at	VALVE disagreement light on the quadrant
			the engine	control stand illuminates and then goes off. b. If
			fuel spar	the test fails (light fails to illuminate), before
			valve	further flight, repair faults as required (refer to
			position	Boeing AMM 28-22-11). 2. Do an operational
				check of the right engine fuel spar valve actuator.
				a. As the R FUEL CONTROL switch on the
				quadrant control stand is moved to the CUTOFF
				position, verify the right SPAR VALVE
				disagreement light on the quadrant control stand
				illuminates and then goes off. b. If the test fails

(light fails to illuminate), before further flight, repair faults as required (refer to Boeing AMM 28-22-11). B. Operational check during engine start 1. Do an operational check of the left engine fuel spar valve actuator. a. As the L FUEL CONTROL switch on the quadrant control stand is moved to the RUN position, verify the left SPAR VALVE disagreement light on the quadrant control stand illuminates and then goes off. b. If the test fails (light fails to illuminate), before further flight, repair faults as required (refer to Boeing AMM 28-22-11). 2. Do an operational check of the right engine fuel spar valve actuator. a. As the R FUEL CONTROL switch on the quadrant control stand is moved to the RUN position, verify the right SPAR VALVE disagreement light on the quadrant control stand illuminates and then goes off. b. If the test fails (light fails to illuminate), before further flight, repair faults as required (refer to Boeing AMM 28-22-11). C. Operational check without engine operation 1. Supply electrical power to the airplane using standard practices. 2. Make sure all fuel pump switches on the Overhead Panel are in the OFF position. 3. If the APU is running, open and collar the L FWD FUEL BOOST PUMP (C00372) circuit breaker on the Main Power Distribution Panel. 4 Make sure LEFT and RIGHT ENG FIRE switches on the Aft Aisle Stand are in the NORMAL (IN) position. 5. Make sure L and R Engine Start Selector Switches on the Overhead Panel are in the OFF position. 6. Do an operational check of the left engine fuel spar valve actuator a. Move L FUEL CONTROL

switch on the quadrant control stand to the RUN				
position and wait approximately 10 seconds.				
NOTE: It is normal under this test condition for				
the ENG VALVE disagreement light on the				
quadrant control stand to stay illuminated. b.				
Move L FUEL CONTROL switch on the				
quadrant control stand to the CUTOFF position.				
c. Verify the left SPAR VALVE disagreement				
light on the quadrant control stand illuminates				
and then goes off. d. If the test fails (light fails				
to illuminate), before further flight, repair faults				
as required (refer to Boeing AMM 28-22-11).				
7. Do an operational check of the right engine				
fuel spar valve actuator. a. Move R FUEL				
CONTROL switch on the quadrant control stand				
to the RUN position and wait approximately 10				
seconds. NOTE: It is normal under this test				
condition for the ENG VALVE disagreement				
light on the quadrant control stand to stay				
illuminated. b. Move R FUEL CONTROL				
switch on the quadrant control stand to the				
CUTOFF position. c. Verify the right SPAR				
VALVE disagreement light on the quadrant				
control stand illuminates and then goes off. d. If				
the test fails (light fails to illuminate), before				
further flight, repair faults as required (refer to				
Boeing AMM 28-22-11). 8. If the L FWD FUEL				
BOOST PUMP circuit breaker was collared in				
step 3, remove collar and close. D. Perform an				
inspection of the fuel spar valve actuator position				
NOTE: This inspection may be most useful				
whenever the SPAR VALVE light does not				
function properly. 1. Make sure the L FUEL				
CONTROL switch on the quadrant control stand				
is in the CUTOFF position. NOTE: It is not				

necessary to cycle the FUEL CONTROL switch
to do this inspection. 2. Inspect the left engine
fuel spar valve actuator located in the left rear
spar. NOTE: Access is through access panel
551EBX. a. Verify the manual override handle on
the engine fuel spar valve actuator is in the
CLOSED position. b. Repair or replace any
actuator that is not in the CLOSED position (refer
to Boeing AMM 28-22-11). 3. Make sure the R
FUEL CONTROL switch on the quadrant control
stand is in the CUTOFF position. NOTE: It is not
necessary to cycle the FUEL CONTROL switch
to do this inspection. 4. Inspect the right engine
fuel spar valve actuator located in the right rear
spar. NOTE: Access is through access panel
651EBX. a. Verify the manual override handle on
the engine fuel spar valve actuator is in the
CLOSED position. b. Repair or replace any
actuator that is not in the CLOSED position (refer
to Boeing AMM 28-22-11).

本指令表2-APU燃油截流阀位置指示操作检查

Figure 2 to Paragraph (g) of This AD-Auxiliary Power Unit (APU) Fuel Shutoff
Valve Position Indication Operational Check

AWL	Task	Interval	Applicabil	Description
No.			ity	
28-A	ALI	10 DAYS	ALL	APU Fuel Shutoff Valve Position Indication
WL-A		INTERVAL	APPLICA	Operational Check. Concern: The APU fuel
PU		NOTE: Not	BILITY	shutoff valve actuator design can result in
		required on	NOTE:	airplanes operating with a failed APU fuel
		days when	Only	shutoff valve actuator that is not reported. A
		the airplane	applies to	latently failed APU fuel shutoff valve actuator
		is not used	airplanes	could prevent fuel shutoff to the APU. In the
		in revenue	with an	event of certain APU fires, the potential exists for
		service.	MA20A20	an APU fire to be uncontrollable. Perform the
		Must be	27	operational check of the APU fuel shutoff valve

done before	(C2 /2T002	monition indication (unless about a leastle
	(S343T003	position indication (unless checked by the
further flight	-56) or	flightcrew in a manner approved by the principal
with an	MA30A10	operations inspector). A. Do an operational
operational	01	check of the APU fuel shutoff valve position
APU if it	(S343T003	indication. 1. If the APU is running, unload and
has been 10	-66)	shut down the APU using standard practices. 2.
or more	actuator	Supply electrical power to the airplane using
calendar	installed at	standard practices. 3. Make sure the APU FIRE
days since	the APU	switch on the Aft Aisle Stand is in the NORMAL
last check.	fuel	(IN) position. 4. Make sure there is at least 700
	shutoff	lbs (300 kgs) of fuel in the Left Main Tank. 5.
	valve	Move APU Selector switch on the Overhead
	position.	Panel to the ON position and wait approximately
		10 seconds. 6. Move APU Selector switch on
		the Overhead Panel to the OFF position. 7.
		Verify the APU FAULT light on the Overhead
		Panel illuminates and then goes off. 8. If the
		test fails (light fails to illuminate), before further
		flight requiring APU availability, repair faults as
		required (refer to Boeing AMM 28-25-11).
		NOTE: Dispatch may be permitted per MMEL
		28-25-2 if APU is not required for flight.

- 2.2. 除非等效符合性方法得到适航部门批准,在完成本指令2.1段要求的维修或检查计划修订后,不可使用其他替代措施(比如,检查)或间隔。
- 3 等效符合性方法:完成本适航指令可采用等效的符合性方法以及调整完成时间,但必须得到适航部门的批准。
- 五. 生效日期: 2015年10月21日
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- 七. 联系人: 徐敬人

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