

REGENT

Aerospace Corporation



A Division of Regent Aerospace Corporation



Aircraft Cabin Interior Engineering & Certification

Engineering Capabilities



Full Service Engineering Support
Research & Development
Project Engineering
Design & Documentation
Testing
Certification

Research & Development



Prototype Development

Mold Making

Experimentation

Design Improvements

Fabrication Improvements

Certification Testing Support

Project Engineering

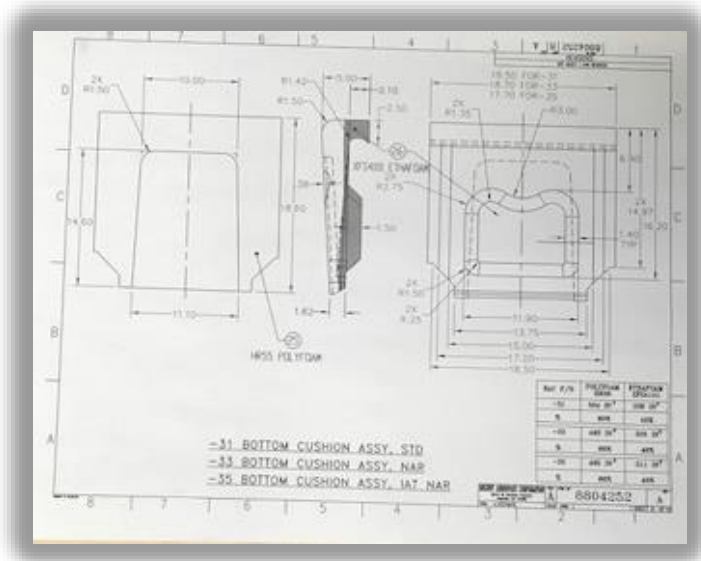
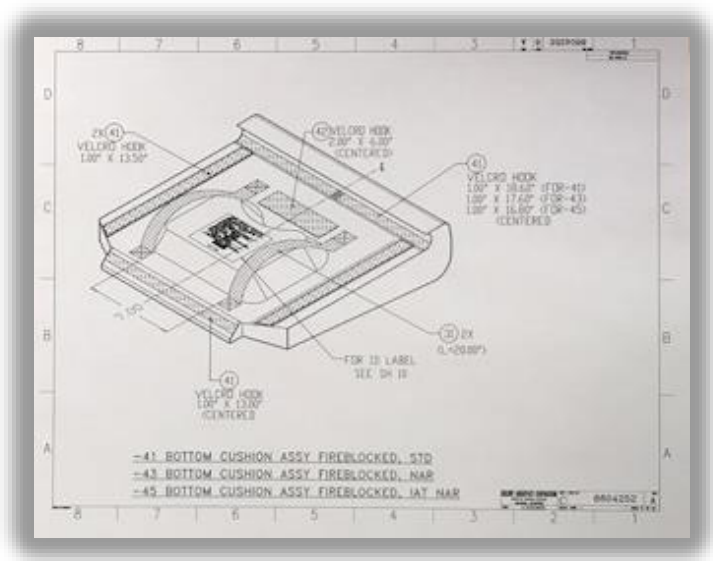
- **Project Planning & Development**
- **Assemble Project Team**
- **Assure adequate resources for success**
- **Facilitate progress meeting**
- **Coordinate interaction with all engineering disciplines**



Design & Documentation

Engineering Software

- 3-D modeling using Solidworks
- Detail drawings using AutoCAD
- Structural analysis using Frame 3DD



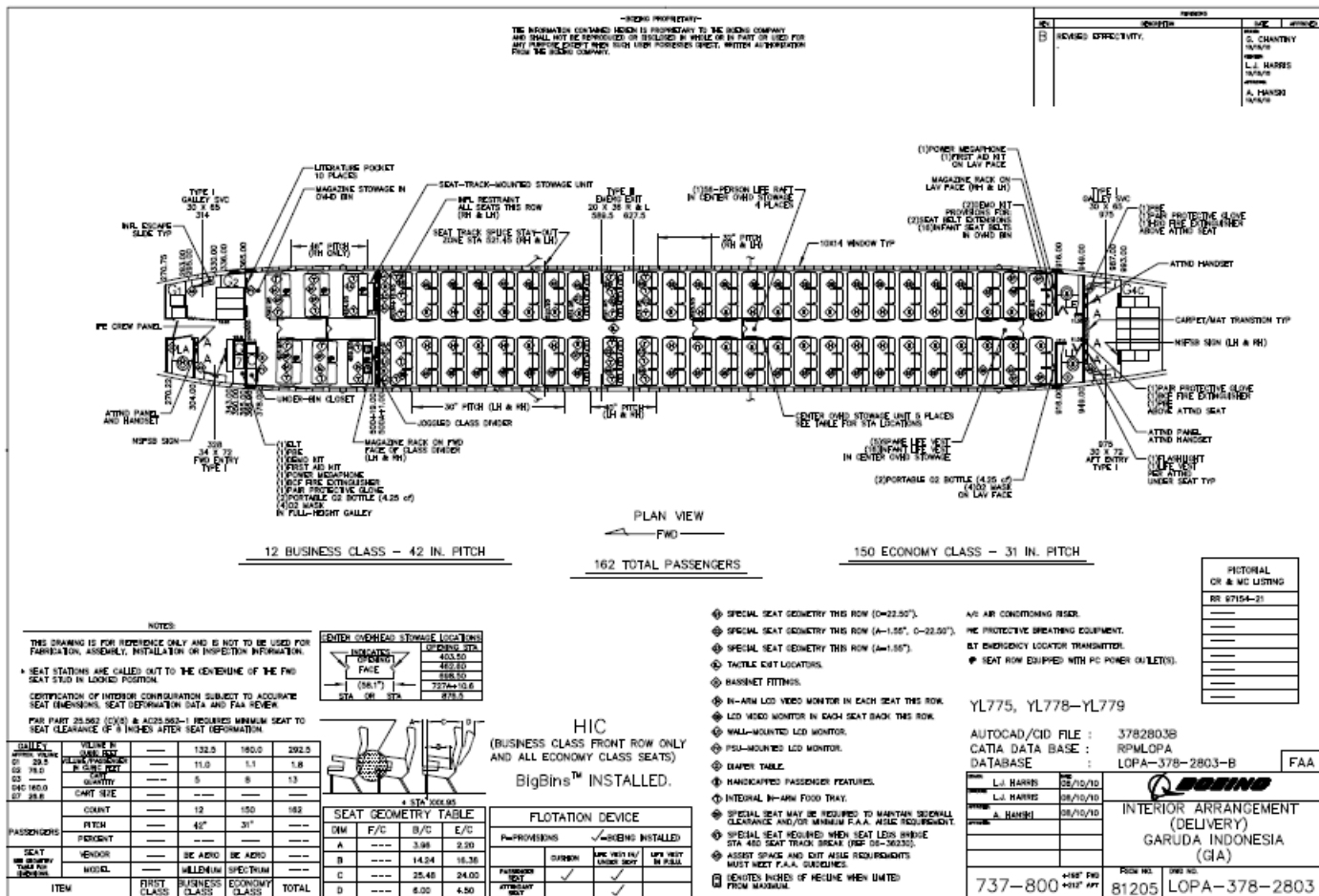
Design & Documentation

Documents –

- **Manufacturing/Certification Drawings**
- **Flammability/Fire block Test Plans / Reports**
- **Static / Dynamic Test Plans and Reports**
- **Structural Analysis Reports**
- **Interface Load Analysis**
- **Modification Instructions**
- **Repair Instructions**
- **Component Maintenance Manuals**
- **Illustrated Parts Catalogs**
- **Service Bulletins**

Design & Documentation

LOPA



Testing

In House

- **FAA Accepted Flammability Test Facility in accordance with 14 CFR 25.853(a)**



Testing

- **Contract with FAA Certified Laboratory**
- **Fire Block Testing in accordance with 14 CFR 25.853(c)**



Testing

In House

- **FAA Static Testing in accordance with 14 CFR 25.561**



Testing

- **Contract with FAA Certified Laboratory**
- **FAA Dynamic Testing in accordance with 14 CFR 25.562**



Certification

Full Service Aircraft Certification Support

FAA STCs, PMAs, TSOs

EASA STCs: Major/Minor Design Changes

**DER Approvals supporting Major Repairs
& Alterations**

Owner/Operator (OOP)

Certification

- **Cabin seating integration changes require:**
- **Certification & Conformity Inspection Plan**
- **A LOPA showing the new seating arrangement.**
- **Additions, deletions or relocations of existing monuments such as class dividers and closets.**
- **Re-pitching PSUs**
- **Re-routing seat-to-seat IFE wire harnesses**
- **Possible emergency escape floor path lighting changes**
- **Function testing of all electrical changes.**
- **Possible EMI testing**
- **AMM, AFM addendums addressing the changes.**
- **Conformity & compliance inspections**

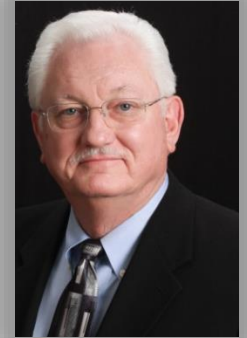
Certification

Continued

- **Structural Substantiation Report**
- **Interface Load Analysis**
- **Electrical Load Analysis**
- **Flammability / Fire Block Test Report**
- **Weight and Balance Report**
- **Emergency Equipment Layout**
- **Master Data List (MDL)**
- **Placard installation drawing**
- **Seat Installation drawing**
- **Safety Assessment**
- **Electrical Wiring Interconnection Systems (EWIS) assessment**
- **Engineering Authorization (EA)**

Certification

FAA Certification Support



Regent has an in-house FAA DER for electrical and mechanical systems capable of supporting:

- 1. Flammability approvals (14CFR 25.853(a) (c))**
- 2. Drawing, LOPA / document approvals**
- 3. IFE data approvals, if required**
- 4. Lighting systems approvals, if required**
- 5. Electrical Load Analysis approvals, if required**
- 6. EMI / RFI testing, if required**

Certification

Certification Support



Regent has Structures DERs that support:

- 1. Structural Substantiation for repairs and modifications.**
- 2. Static testing**
- 3. Dynamic testing, for 16G seats**
- 4. Interface Load Analysis**
- 5. Weight and Balance changes, if required**

Certification

EASA Certification Support

Additionally, Regent is supported by EASA DOAs for EASA Part 21j Design Approvals for:

- 1. Minor Repairs and Alterations**
- 2. Drawing, LOPA / document approvals**
- 3. Structural Substantiation Report approvals**
- 4. IFE data approvals**
- 5. Flammability/Fire Block Testing approvals**
- 6. Electrical Load Analysis approvals**
- 7. EMI / RFI testing**
- 8. Interior Compliance approvals**

Certification

STC Certificate

TSO Approval

PMA Supplement

United States Of America
Department of Transportation - Federal Aviation Administration

Supplemental Type Certificate

Number STD1500A

This Certificate issued to Regent Aerospace Corporation
28110 Harrison Parkway
Valencia, California 91355

*certifies that the change in the type design for the following product with the limitations and conditions therein as specified herein meets the airworthiness requirements of Part 25 of the Federal Aviation Regulations. (*Certification basis is set forth in Type Certificate Data Sheet A2NM)*

Original Model Type Certificate Number A2NM
Model Boeing Aircraft Company
Model 757-200 Series

Description of Type Design Change: Installation of modified BW Aerospace PTC Model 940 seats:

- Regent Aerospace Part Number 884378-01, -02 seat assembly front row left hand and right hand.
- Regent Aerospace Part Number 884379-01, -02, -04 seat assembly handcap endbay left hand and right hand and special. These installations are in accordance with Regent Aerospace Master Data List 884378 Revision A dated January 9, 2004 or later FAA approved revisions.

Limitations and Conditions: This approval shall not be incorporated in any aircraft unless it is determined that the interrelationship between this installation and any previous approved configuration will not introduce any adverse effect upon the airworthiness of the aircraft.

If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.


This certificate and the supporting data which is the basis for approval shall remain in effect until:
Date of application: August 29, 2003 *Date received:*
Date of issuance: February 2, 2004 *Date awarded:*

unrestricted, unexpired, provided no restrictions date is otherwise established by the Administrator

By Signature of the Administrator

Alan T. Shanski
Manager, Systems & Equipment Branch, Los Angeles Aircraft Certification Office
10/04

Any alteration of this certificate is punishable by a fine of not exceeding \$1000, or imprisonment not exceeding 1 year, or both.
FAA Form 3360-1 (11-03) Page 1 of 1 This certificate may be transferred in accordance with FAR 21.47


U.S. Department of Transportation
Federal Aviation Administration

Transport Airplane Directorate
Aircraft Certification Service
1801 Lull Avenue S.W.
Renton, Washington 98025-4226

OCT 16 2006
Regent Aerospace Corporation
Attn: Mr. Peter Blichka
Director of Engineering
28110 West Harrison Parkway
Valencia, California 91355

Dear Mr. Blichka:

Regent Aerospace Corporation, Individual Floatation Device
Technical Standard Order C72c

This is in reply to your letter dated October 11, 2006, requesting Technical Standard Order (TSO) authorization for your Individual Floatation Device(s). The statement of conformance to Technical Standard Order C72c and the submitted data are accepted. Effective the date of this letter, you are authorized to identify the following Individual Floatation Device(s) with the marking requirements defined in Title 14 Code of Federal Regulations (14 CFR) part 21.607(d) and in TSO-C72c.

Part Number	Description
883137-201	Bottom Cushion Assembly, Standard
883137-205	Bottom Cushion Assembly, Narrow

Your Quality Control System, as defined in your Quality Control Manual, currently on file at the Los Angeles Manufacturing Inspection District Office, is considered satisfactory for production of this article at your Valencia, California, facility.

As required by the TSO, the following statement must be furnished with each manufactured unit:

"The conditions and tests required for TSO approval of this article are minimum performance standards. It is the responsibility of those installing this article either on or within a specific type or class of aircraft to determine that the aircraft installation conditions are within the TSO standard. TSO articles must have separate approval for installation in an aircraft. The article may be installed only if performed under 14 CFR part 43 or the applicable airworthiness requirements."

Page 1 of 1

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

REGENT AEROSPACE CORPORATION
28110 W. HARRISON PARKWAY
VALENCIA, CA, 91355

PMA NO: PQ1975NM
SUPPLEMENT NO: 26
DATE: September, 29, 2006

PART NAME	PART NUMBER	APPROVED REPLACEMENT FOR PART NUMBER	APPROVAL BASIS AND APPROVED DESIGN DATA	MAKE ELIGIBILITY	MODEL ELIGIBILITY
Endbay panel, outer, w/press light cut out, LH	882689-03	135-00-279-57CA	Test and Comparison per 14 CFR § 21.303 Dwg No.: 882689 Rev. J Date: 08-10-06 or later FAA approved revision.	Boeing	767-322 747-400 Series
Endbay panel, outer, w/press light cut out, RH	882689-04	135-00-279-36CA	Test and Comparison per 14 CFR § 21.303 Dwg No.: 882689 Rev. J Date: 08-10-06 or later FAA approved revision.	Boeing	767-322 747-400 Series

-----END OF LISTING-----

NOTE: Minor design changes (reference 14 CFR part 21 §§ 21.93 and 21.95) must be submitted in a manner as determined by the ACO. Major Design changes (reference 14 CFR part 21 §§ 21.93 and 21.97) to drawings and specifications are to be handled in the same manner as that for an original FAA-PMA.

Alan T. Shanski
Alan T. Shanski
Manager, Cabin Safety, Mechanical and Environmental Systems Branch
Los Angeles Aircraft Certification Office

Wynan G. Shell
Wynan G. Shell
Manager, Van Nuys Manufacturing Inspection District Office

Certification

Parts Manufacturing Approval

Drawings – CAD/Solid Modeling
 Fireblock/Flamability 14CFR 25.853
 (a)(c)
 Static Testing 14CFR 25.561, TSO-C39(b), NAS 809
 Flotation TSO-C72 (c)
 BOM Creation
 PMA Approval Letters

Part Number	Description	Qty
- 896232-01	Seat Assy, T/C, DBL, L/H	1
- 721-21-04C	Seat Assy, T/C, DBL, L/H	1
- SF21861-514	Cover Bottom UPH Sid w/LIP	1
FAB0008-106	UPH Fabric DARK GRAY STRIPED	1
FAB0008-107	UPH Fabric, Dark Gray	1
TEX-40-32002	Thread, Perma-core, Black	1
TEX-70-53205	Thread, Poly, Black	1
- 882087-23	Velcro Loop, Black 3/4"	1
- SJ34181BEIGE		1
SF21861-511	Cover, Bottom, Fabric	1
FAB0008-106	UPH Fabric DARK GRAY STRIPED	1
FAB0008-107	UPH Fabric, Dark Gray	1
	Thread, Nylon, Smoke	1
	Thread, Nylon, Nickel	1
	Velcro Hook, Black, 3/4"	1
	Velcro Loop, Black 3/4"	1
	Velcro Loop, Black 1"	1

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FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL
 REGENT AEROSPACE CORPORATION
 28110 W. HARRISON PARKWAY
 VALENCIA, CALIFORNIA 91355
 PMA NO.: P01975NM
 SUPPLEMENT NO.: 17
 DATE: March 9, 2003

Page 2 of 4
FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL
 REGENT AEROSPACE CORPORATION
 28110 W. HARRISON PARKWAY
 VALENCIA, CALIFORNIA 91355
 PMA NO.: P01975NM
 SUPPLEMENT NO.: 16
 DATE: AUGUST 9, 2002

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FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL
 REGENT AEROSPACE CORPORATION
 28110 W. HARRISON PARKWAY
 VALENCIA, CALIFORNIA 91355
 PMA NO.: P01975NM
 SUPPLEMENT NO.: 16
 DATE: AUGUST 9, 2002

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FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL
 REGENT AEROSPACE CORPORATION
 28110 W. HARRISON PARKWAY
 VALENCIA, CALIFORNIA 91355
 PMA NO.: P01975NM
 SUPPLEMENT NO.: 16
 DATE: AUGUST 9, 2002

NOTE: Minor design changes as determined by drawings and specification

April 27, 2004
 Regent Aerospace Corporation
 ATTN: Peter Blichka, Director Engineering
 28110 W. Harrison Parkway
 Valencia, California 91355

In accordance with the provisions we have found that the design of the Aerospace Corporation, and of the regulations applicable to it has been determined to be in compliance with the inspection system required California, 91355. Accurate production of the replacement.

You are reminded that the PMA letter of approval date No.20. The enclosed Supply approval to produce the part conforms to the undersigned.

Sincerely,
 Douglas K. Linsberger
 Aviation Safety Inspector, M

Enclosure

Sincerely,
 Alan T. Shisueki
 Manager, Systems and Eng
 Los Angeles Aircraft Center

Engineering
 December 8
 Page 19

REGENT Aerospace Corporation
 28110 W. Harrison Parkway
 Valencia, CA 91355
 Tel: 651-257-3000

FLAMMABILITY TEST PLAN/REPORT
 NO. 100054
 REVISION: A

DEMONSTRATION OF COMPLIANCE OF AIRCRAFT COMPONENTS
 TO THE
FLAMMABILITY REQUIREMENTS OF FAR 25.853(a) APPENDIX F PART 1 (a)(1)(ii) AMENDMENT 25-83

AIRCRAFT:
 737-300-500 & 757-200

USED ON:
FAA PROJECT NUMBER PM9610A-T

PREPARED BY: Jolanta Speed **DATE:** 5/30/02
CHECKED BY: Maaboochawin G. Shaikh **DATE:** 5/30/02
APPROVED BY: Peter J. Blichka **DATE:** 5/30/02

Transport Airplane Directorate
 Los Angeles Aircraft Certification Office
 3901 Rosewood Boulevard, Suite 100
 Van Nuys, California 91410-8223

U.S. Department of Transportation
Federal Aviation Administration

April 27, 2004

Regent Aerospace Corporation
 ATTN: Mr. Peter Blichka
 Director of Engineering
 28110 W. Harrison Parkway
 Valencia, California 91355

Dear Mr. Blichka:

Design Approval for Parts Manufacturer Approval (PMA)
 FAA Project No. PM10011A-T

This is in response to your letter dated January 21, 2004, requesting PMA engineering design approval based on test and computation.

We have reviewed the drawing(s) and data submitted and find them acceptable. The engineering design approval via the PMA Supplement, along with your application, has been forwarded to the Federal Aviation Administration, Van Nuys Manufacturing Inspection District Office (MIDO), 7120 Havenhurst Avenue, Suite 100, Van Nuys, California 91406. We will retain the FAA approved drawing(s) for our files. FAA engineering design approval does not include production approval. After verifying that you meet their production requirements, the MIDO will issue to you your FAA PMA under § 21.303(b) of the Federal Aviation Regulations.

The recipient of a FAA PMA Supplement, as a design approval holder, may be required to provide instructions for continued airworthiness prepared in accordance with § 21.303(b) of the Federal Aviation Regulations.

If you have any questions in regards to the engineering aspects of your PMA Supplement, when received from the MIDO, please contact Deborah Overstreet at (562) 627-5347. In addition, please see the enclosed letter regarding the submission of minor changes.

Sincerely,
 Alan T. Shisueki
 Manager, Systems and Equipment Branch

Enclosure

Transport Airplane Directorate
 Los Angeles Aircraft Certification Office
 3901 Rosewood Boulevard
 Van Nuys, California 91410-8223

U.S. Department of Transportation
Federal Aviation Administration

April 27, 2004

Regent Aerospace Corporation
 ATTN: Mr. Peter Blichka
 Director of Engineering
 28110 W. Harrison Parkway
 Valencia, California 91355

Dear Mr. Blichka:

Design Approval for Parts Manufacturer Approval (PMA)
 FAA Project No. PM10011A-T

This is in response to your letter dated January 21, 2004, requesting PMA engineering design approval based on test and computation.

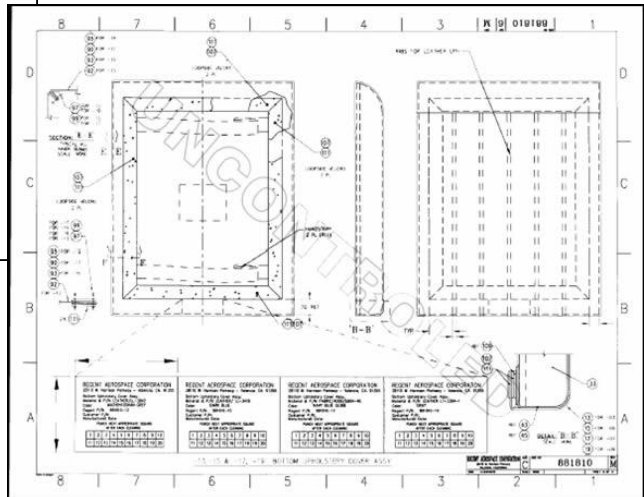
We have reviewed the drawing(s) and data submitted and find them acceptable. The engineering design approval via the PMA Supplement, along with your application, has been forwarded to the Federal Aviation Administration, Van Nuys Manufacturing Inspection District Office (MIDO), 7120 Havenhurst Avenue, Suite 100, Van Nuys, California 91406. We will retain the FAA approved drawing(s) for our files. FAA engineering design approval does not include production approval. After verifying that you meet their production requirements, the MIDO will issue to you your FAA PMA under § 21.303(b) of the Federal Aviation Regulations.

The recipient of a FAA PMA Supplement, as a design approval holder, may be required to provide instructions for continued airworthiness prepared in accordance with § 21.303(b) of the Federal Aviation Regulations.

If you have any questions in regards to the engineering aspects of your PMA Supplement, when received from the MIDO, please contact Deborah Overstreet at (562) 627-5347. In addition, please see the enclosed letter regarding the submission of minor changes.

Sincerely,
 Alan T. Shisueki
 Manager, Systems and Equipment Branch

Enclosure



Confidential and Proprietary

Regent Owner Operator Parts (OOP)

In order to qualify a replacement part to be used on an aircraft, the FAA requirements are the same for any certification method whether it be PMA, OOP or under 14 CFR Part 43 repair station authority. As such, Regent creates the same documentation and testing to develop parts for any of these methods.

Since most trim and finish sensitive parts are unique to each airline, OOP is a preferred certification method to pursue since these parts will have no application other than for that airline. Regent recommends this method over the PMA process.

Regent OOP Parts

Examples

PCU Touchpad



Food Tray Latch



Regent OOP Parts

Examples

Crew Seat Cushions



Passenger Seat Cushions



Regent OOP Parts

Examples

Vacuum Formed Plastics



Molded Foam Parts



Engineering Support for:

- Seating Systems
- In Flight Entertainment
- Galleys
- Lavatories
- Overhead Bins
- Sidewalls
- Floor Coverings



Seating Systems - Passenger

- Trim & Finish Changes



Cabin Reconfigurations



Seating Systems - Crew

Flight Attendant Seats



Single Rotating Flight Attendant Seating



Seating Systems - Crew

Captain



Observer



In Flight Entertainment



Galley

Maintenance and Overhaul



Lavatories

Maintenance and Overhaul



Overhead Bins



Lamination & Refurbishment



Sidewalls



Lamination & Refurbishment

Floor Coverings Replacement



Mission Statement



Regent Aerospace is committed to be the industry leader in the area of aircraft seating, interior refurbishment, parts support and window repair services.

Individual pride in quality workmanship, teamwork, innovation and an environment that promotes personal and professional growth will build quality into our products and services.

Dedication to these values will carry us to our goal of complete customer satisfaction.