

United States of America  
Department of Transportation - Federal Aviation Administration  
**Supplemental Type Certificate**

**Number SA00048SE**

*This certificate, issued to*

**BLR Aerospace, LLC  
3102 100th Street SW  
Everett, WA 98204**

*certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 3 of the Civil Air Regulations.*

*Original Product—Type Certificate Number:* A20SO  
*Make:* Piper  
*Model:* PA-31-325

*Description of the Type Design Change:* Vortex generators manufactured in accordance with Document AA1188, no revision, dated October 19, 1993, or later Federal Aviation Administration (FAA) approved revision and installed in accordance with Document BL1151, Revision B, dated September 15, 1993, or later FAA-approved revision.

*Limitations and Conditions:* Approval of this change in type design applies to the above model aircraft only. This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated unless it is determined that the relationship between this change and any of those other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of that aircraft. A copy of this certificate and the Flight Manual Supplement (FMS) specified on the continuation sheet must be maintained as part of the permanent records for the modified aircraft.

(See Continuation Sheet Page 3 of 4 pages)

*This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.*

*Date of application:* October 11, 1994

*Date reissued:* 11/23/09; 9/23/11

*Date of issuance:* April 21, 1995

*Date amended:* March 4, 1996, May 30, 2013



*By direction of the Administrator*

\_\_\_\_\_  
*(Signature)*

\_\_\_\_\_  
Acting Manager, Seattle Aircraft Certification Office  
*(Title)*

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

This certificate may be transferred in accordance with FAR 21.47.



Department of Transportation - Federal Aviation Administration

# Supplemental Type Certificate

## (Continuation Sheet)

*Number* SA00048SE

### BLR Aerospace, LLC

*Issued:* April 21, 1995

*Reissued:* November 23, 2009; September 23, 2011

*Amended:* March 04, 1996, May 30, 2013

### *Limitations and Conditions continued:*

This Continuation Sheet, which is part of Supplemental Type Certificate (STC) SA00048SE, prescribes the conditions and limitations under which the product for which the STC was issued meets the standards for airworthiness of the Federal Aviation Regulations.

The conditions and limitations of Type Certificate Data Sheet Number A20SO apply except where superseded by the following:

1. The system consists of eighty-six vortex generators on the wing and vertical tail of the airplane and four strakes (two on each nacelle).
2. There may be a maximum combined total of four vortex generators missing from the wing and/or vertical tail before replacements must be installed.
3. If any of the eighty-six vortex generators are missing, the airplane must be operated within the limitations of the basic airplane flight manual until replacements are installed.

### STC

**Compatibility:** This increased gross weight STC has **not been shown compatible with any wing extension or wingleet** modifications and is only valid to the weights specified on this modification. The installer is responsible for assessing the impact of concurrently installed STCs which may affect wing loads, particularly fatigue and static requirements. Additional analysis, FAA approved data, and FAA approved inspections may be needed to meet these requirements.

**Eligibility:** Piper Model PA-31-325 aircraft with serial numbers 31-7300932 and on are eligible this modification.

**Required Flight Manual Supplement:** Document No. AFMS-NCR-3 dated December 20, 1993 or later FAA approved revision.

(See Continuation Sheet Page 4)

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*This certificate may be transferred in accordance with FAR 21.47.*



