

# Supplemental Type Certificate

*Number* SA2768NM-D

*This Certificate issued to* United Air Lines, Inc.  
600 Jefferson Street  
Houston, Texas 77002

*certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 25\* of the Federal Aviation Regulations \*See Type Certificate Data Sheet A20WE for Special Conditions.*

*Original Product Type Certificate Number:* A20WE

*Make:* Boeing

*Model:* 747-400 Series

*Description of Type Design Change:* Modifies the aircraft to install a Collins ARINC Communication Addressing and Reporting System (ACARS). The installation is in accordance with DAS-1-WE Approved United Air Lines Drawing List No. 2768 dated September 28, 1989, or later FAA approved revisions.

*Limitations and Conditions:* The approval of this installation applies basically to the 747-400 Series 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 by the installer that the interrelationship between this change and any of those previously approved modifications will introduce no adverse effect upon the airworthiness of this aircraft. Uplink of ACARS data directly to the FMS or any other essential or higher level system, is not authorized under this approval. 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 surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.*

*Date of application:* August 18, 1989

*Date reissued:* November 30, 2011

*Date of issuance:* September 28, 1989

*Date amended:*



*By direction of the Administrator*

(Signature)

Haifa Haj-Eid  
Supervisor, Technical & Administrative Support  
Staff, Los Angeles Aircraft Certification Office  
(Title)

United States Of America  
Department of Transportation - Federal Aviation Administration  
**Supplemental Type Certificate**  
(Continuation Sheet)

NOTE:

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