

# Request for Proposals

**TRUCK MOUNTED PASSENGER AIRSTAIRS**

**FOR DES MOINES AIRPORT AUTHORITY  
DES MOINES, IOWA**

RFP ID #: MAINT-19-01



August 23, 2019



## SPECIAL INSTRUCTIONS

<b>RFP Title</b>	<b>Truck Mounted Passenger Airstairs</b>
<b>RFP ID#</b>	<b>19-01</b>
<b>Purpose</b>	<b>Acquire late model passenger airstairs truck.</b>
<b>Submittal Deadlines</b>	<b>Questions-2:00 P.M. CST – September 9, 2019</b> <b>Proposals -2:00 P.M. CST – September 26, 2019</b>
<b>Proposals Opened</b>	<b>4:00 P.M. CST – September 26, 2019</b> <b>Airport Administration Offices</b>
<b>Expected Award</b>	<b>October 8, 2019</b>
<b>Submit RFP to this address</b>	Des Moines Airport Authority 5800 Fleur Drive, Suite 201 Des Moines, IA 50321-2864
<b>Special Instructions</b>	<ul style="list-style-type: none"> <li>• Label the lower left corner of your sealed submittal package with the RFP number</li> <li>• Place the signature affidavit as the first page of your proposal</li> <li>• Submit one original copy proposal</li> </ul>
<b>Submit all Inquiries to</b>	Name: Clinton Torp Title: Director of Operations Phone: (515) 344-3131 E-Mail: <a href="mailto:crtorp@dsmairport.com">crtorp@dsmairport.com</a> Web: <a href="http://www.dsmairport.com">www.dsmairport.com</a>
<b>Date issued</b>	<b>August 23, 2019</b>

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## **1. Purpose:**

The Des Moines Airport Authority is seeking proposals for one (1) new, current model year, truck mounted passenger airstairs.

## **2. RFP Description:**

This Request for Proposals (“RFP”) has been developed by the Des Moines Airport Authority (the “Authority”) to procure equipment for the Des Moines International Airport (the “Airport”). The respondents to this RFP are hereafter referred to as the “Proposers”.

This RFP is designed to provide interested parties with sufficient information on the proposed equipment to enable submission of a proposal that will respond to the Des Moines Airport Authority’s expectations for the acquisition of the equipment specified hereto.

This RFP provides the instructions and forms for submission of a proposal and associated reference material.

The equipment supplied by Proposer must be in accordance with industry standards for the construction and supply of equipment of the same or similar type and unless otherwise notated in the Proposer’s submission, all specifications are requirements of this RFP will be assumed to be satisfied with the submission of a proposal by Proposer.

## **3. Specifications**

Authority will consider proposals for one (1) new truck mounted passenger airstairs, current production.

Des Moines Airport Authority intends to purchase one (1) truck.

Proposer shall complete every space in the area provided on Form 5 with either a check mark to indicate the item being proposed is exactly as specified (Comply), or deviates from proposal specification (Does Not Comply). Any deviation from the minimum specifications stated herein must be identified in detail on the form provided and must include a description of how the proposed item/s differ from the proposal requirements, along with detailed justification for such deviation. Proposal shall include photos and schematics as necessary, for complete clarification.

Delivery time may be a factor in the proposal award. The item shall be fully prepared and ready to deliver in the most expedited time possible with the expected delivery timeframe being provided in the submission documents.

If no variations are listed, it will be assumed that all specifications are met.

These specifications describe one (1) truck mounted passenger airstairs of manufacturer’s latest design and construction. The specifications provided are minimum standards. The truck

must be highly mobile and able to meet aircraft sill heights for narrow and wide body aircraft. In addition, the vehicle must be able to be operated by one person.

<b>A.</b>	<b>General Configuration</b>
1.	Minimum chassis size of one (1) ton.
2.	Vehicle will be suitable for travel over public roads.
3.	Vehicle shall be designed and line built by the original manufacturer as a 4 x 2.
4.	Minimum of 4 hydraulic stabilizers.
5.	Upper platform has side retractable forward side panels.
6.	Vehicle cab can accommodate 2 persons and also has a roof window.
7.	One (1) person operation.
8.	Locking device to assure uniform height of telescopic stairs.
9.	Emergency lowering manual pump.
10.	Amber rotating beacon. Federal Signal Corp. Part 452112-02, Target Tech Highlighter.
11.	Back-up audio signal.
12.	Cold weather equipped for operation in sustained temperatures to 0°F.
<b>B.</b>	<b>General Standards</b>
1.	All wiring shall be sufficiently sheathed and properly routed and retained to prevent damage from chafing.
2.	All fluid fill points (fuel, hydraulic fluid, coolant, etc.) shall be clearly marked.
3.	All instruments, breakers, fuses and controls labeled in a manner to remain legible for the life of the unit.
4.	Aluminum handrails.
5.	Hydraulically operated/extending platform.
6.	Heavy-duty bumpers.
7.	Emergency 12-volt hydraulic power pack.
8.	Platform contact sensor.
9.	Instructional placards to be provided and installed.
<b>C.</b>	<b>Engine Assembly</b>
1.	8-cylinder, gas powered, heavy-duty automatic transmission.
2.	EPA emission certified.
3.	Electronic controls for fuel injection and engine management.
4.	12-volt starter.
5.	115-amp alternator.
6.	Engine block heater.
7.	Heavy-duty suspension.
<b>D.</b>	<b>Chassis</b>
1.	Ford F-350 or comparable, dual rear wheels.
2.	Heavy-duty automatic transmission and power steering.
3.	Minimum 141 in. wheelbase.

4	Main frame made out of steel tubular structure.
5	Master battery disconnect switch.
6	Chassis shall be painted yellow or per Airport Authority as approved prior to production.
7	Airport logo (2) and vehicle number lettering (3) as approved by Airport Authority prior to production.
<b>E.</b>	<b>Height Range</b>
1.	Minimum of 96 in. low position and 226 in. high position and shall service the following aircraft at a minimum: A-300, A-310, A-318, A-319, A-320, A-321, A-330, A-340, A-380 lower doors, B707, B727, B-737, B747, B-757, B-767, B-777, L-1011, DC-8, DC-9, DC-10, F-28-F-100, MD-11, MD-80, TU-154, TU-154B,T-154B
<b>F.</b>	<b>Stair Capacity</b>
1.	Minimum 900 lbs. Platform.
2.	Minimum 200 lbs. Each step.
3.	Rubberized stair treads and platform.
4.	Minimum of 10 lights on stairway mounted alternately on each side, minimum of one light mounted at rear of each side of the platform, and one adjustable floodlight for aircraft doorway illumination.
<b>G.</b>	<b>Minimum Stair Dimensions</b>
1.	Normal tread depth 10 in.
2.	Normal tread width (lower section) 42 in.
3.	Normal tread width (upper section) 47 in.
4.	Top platform width 64 in.
5.	Top platform depth 87 in.
6.	Intermediate landing depth 19 in.
7.	Constant riser height 7.85 in.
<b>H.</b>	<b>Hydraulic System</b>
1.	Single stage cylinder.
2	Manually activate valves.
3	Engine driven pump.
4	System pressure of 1,200 psi.
5	Hydraulic tank with breather cap and dipstick.
6	Manually operated auxiliary pump.
7	Mechanical interlocks to hold stairs in place if hydraulic pressure is lost.
8	Hoses for all systems of proper size and strength to work with the pressure and volume of oil required. All hoses will be routed and retained in a manner not to interfere with routine maintenance and will be properly hung and encased to prevent chafing. Hoses will not be in contact with any edges.
9	Fluid and components design for temperature to –20 degrees F ambient cold start.
10	Hydraulic tank heater for winter plug-in.

11	Shut-off ball valve at the hydraulic tank.
12	Hydraulic system pressure gauge.
<b>I.</b>	<b>Controls and Instruments.</b>
1.	Control panel in cab and exterior location determined by the Airport to operate complete unit.
2.	Power, stabilizers down and stair light indicators.
4	All instrumentation and controls shall be labeled in a manner to remain legible for the life of the unit and shall be illuminated (in on and off position). All wiring shall be either harness, cable, split loomed, or shrink-wrapped. All wiring shall be color-coded, wire numbered matching drawing schematics and terminal strip, and labeled every 3 inches. The gauge wire and processes shall be in accordance with common wiring practices, SXL insulation type.
5	Dash mounted hour meter.
<b>J.</b>	<b>Manuals. (As-Builts for Units Delivered)</b>
1	Operator manuals (2 sets) covering description, operating, troubleshooting, maintenance, and overhaul. Manuals shall include pre-operation checklists and lubrication charts. Digital copies of all manuals to be included on a USB drive.
2	Maintenance and troubleshooting manual. Manual shall include as-built wiring diagrams and complete schematics (electrical, hydraulic, pneumatic, etc.).
3	Parts manual with exploded view assembly drawings for each subassembly. Parts manual shall list original manufacturer's nomenclature and part number, and a cross-reference with name and address of each manufacturer.
4	Shop repair manual including ABS system.
5	Service/part manuals for installed equipment that is supplied by other parties.
<b>K.</b>	<b>Delivery.</b>
1	The proposer is responsible for the safe and timely delivery of airstair unit.
2	Upon delivery, proposer is responsible for assembling all components to ensure airstair unit is fully operational.
<b>L.</b>	<b>Startup and Training.</b>
1	Train the trainer operator training at the manufacturer's office provided at no additional cost to the airport.
2	Training sessions shall be coordinated with airport staff and shall include appropriate manuals or other written materials.
3	Four (4) hours of maintenance familiarization training session to accommodate two (2) technicians. Training sessions shall include appropriate manuals or other written materials. Training held at the manufacturer's office at no additional cost to the airport.
4	List of any specialty tools needed for maintenance of unit.

<b>M.</b>	<b>Warranty and Support.</b>
1	Complete warranty against defective materials and workmanship for a period of one (1) year after vehicle is placed into service by airport. Airport will provide a letter of in-service date.
2	All labor, transportation expenses and defective parts shall be replaced at no cost.
3	Proposer shall provide airport with notification of design updates and copies of service and technical bulletins throughout the life of the airstair unit while owned by airport.
4	Vehicle warranty 3yr/36,000 mile.

#### 4. Invoicing and Payment Procedures

Proposer will provide delivery of the equipment as required in the specifications and upon delivery shall provide an itemized inventory of all items required as part of the equipment purchase to include an itemized billing statement. Upon acceptance of the equipment by the Authority and confirmation by the Authority that the equipment meets the requirements of this RFP, full payment per the proposal will be made thirty (30) days after delivery to the Proposer.

If any component of the equipment does not meet the RFP specifications, including any variations submitted by Proposer and accepted by Authority, a partial payment may be made by the Authority at the discretion of the Authority. Alternatively the Authority may require that discrepancies are remedied prior to any payment being made. Any discrepancies will be corrected within fifteen (15) days of delivery and notification to Proposer or the purchase may be terminated by the Authority with no payment due to the Proposer.

Invoices shall be mailed to:

Des Moines International Airport  
5800 Fleur Drive, Suite 207  
Des Moines, IA 50321-2800

#### 5. Required Submittals

The following forms are required to be included in the RFP response:

- a) Non-collusion affidavit. (Form 1)
- b) Name and type of company submitting proposal including sales contact, business address, phone number, and e-mail address for this RFP. (Form 2)
- c) History of Proposer's company. Years in business, airport product supply references similar to this proposal, major accounts, and similar types of equipment provided. (Form 3)
- d) Price proposal. (Form 4)
- e) Specification compliance with exceptions noted. (Form 5)
- f) Delivery datasheet upon delivery of equipment. (Form 6)



## **6. Pre-Proposal Questions**

Questions related to this RFP may be directed to Clinton Torp, Director of Operations, on or before 2:00 PM September 9, 2019 via email at [crtorp@dsmairport.com](mailto:crtorp@dsmairport.com). Responses to all questions received will be posted to <http://www.dsmairport.com/about-the-airport/current-airport-rfps.aspx> no later than 2:00 PM on September 13, 2019 in the form of a RFP Addendum. All RFP Addendums will be posted on the above listed website and must be acknowledged with the Proposer's submission. It is highly recommended that all Proposers check the website prior to submission of their Proposal. No Addendums will be issued within 72 hours of the submission deadline without subsequently changing the submission deadline. Receipt of questions via email will be acknowledged within 24 hours. If a question is not acknowledged, please contact Clinton Torp at 515-256-5777.

## **7. Selection Procedure**

All proposals will be reviewed by Authority staff based on proposal price submitted and compliance with the equipment specifications.

The Authority reserves the right to award the Contract based on the lowest responsive, responsible proposer taking into consideration the Proposers ability to meet the equipment specifications, qualifications including experience, quality, and delivery workmanship history. Noncompliance with the specifications of this RFP including any variances without addendum approval may result in a proposal not being accepted even if it is the lowest responsive Proposal.

## **8. Appeal of Authority Staff Recommendation**

A Proposer who is aggrieved by the Authority staff's determination and recommendation as to the selection of the best proposal may appeal such determination and recommendation by filing a written objection to the Authority within the appeal deadline set forth in the Notice of Intent to Award. Such objections may be filed in person, by mail, or e-mail but must be received within the appeal deadline. In its written objection, the appealing Proposer shall set forth all of its objections to the Authority staff's recommendation and all arguments in support of its objections, and shall attach all documentation supporting its objections upon which it intends to rely.

The Authority Board may, in its discretion, hear presentations by the appealing Proposer and by competing Proposers with respect to the appealing Proposer's objections. If the Authority Board agrees to hear presentations, it may limit their length and all Proposers will be given an equal opportunity to speak. The Authority Board's decision will be final.

## **9. Authority Board Consideration of Authority Staff Recommendation as to Best Proposal**

When the Authority staff's recommendation comes before the Authority Board for consideration, the Board may request that the recommended Proposer appear before the Board to give a presentation or to answer questions regarding its proposal. Competing Proposers will not be allowed to speak at that time unless a prior request has been made and permission to speak granted, or unless an Authority Board member requests that the competing Proposer be allowed to speak and the Board consents to the request.

## 10. Rejection of Proposals

The Authority reserves the right to reject any or all proposals in whole or in part received in response to the RFP. The Authority will not pay for any information requested in the RFP, nor is it liable for any cost incurred by a Proposer in responding to the RFP.

## 11. Vendor Cost

Authority shall assume no responsibility for Proposer's costs incurred in developing a proposal.

## 12. Negotiation

Authority reserves the right to negotiate any aspect of any proposal deemed responsive to this RFP.

## 13. Proposals Not Confidential: Proposer Requests for Confidentiality Under Iowa Open Records Law, Chapter 22 of Iowa Code; Disclosure of Proposal Content

Under Chapter 22 of the Iowa Code, "Examination of Public Records", all records of a governmental body are presumed to be public records, open to inspection by members of the public. Section 22.7 of the Iowa Code sets forth a number of exceptions to that general rule, establishing several categories of "confidential records". Under this provision, confidential records are to be kept confidential, "unless otherwise ordered by a court, by the lawful custodian of the records, or by another person duly authorized to release such information". Among the public records which are considered confidential under this Iowa Code provision, are the following:

3. Trade secrets which are recognized and protected as such by law.
6. Reports to governmental agencies which, if released, would give advantage to competitors and serve no public purpose.

Under Chapter 22 of the Iowa Code, the Authority, as custodian of the proposal submitted in response to a Request for Qualifications, may, but is not required, to keep portions of such qualifications confidential under exceptions 3 and 6 (noted above). If a responding individual or company determines that a portion or portions of its proposal constitute a trade secret, or should otherwise be kept confidential to avoid giving advantage to competitors, **a confidentiality request may be submitted with the proposal** identifying which portion or portions of the proposal should be kept confidential and why. The burden will be on each individual proposer to make such confidentiality request and to justify application of a confidentiality exception to its proposal. The Authority will not under any circumstance consider the entire proposal to be a confidential record.

If a request is thereafter made by a member of the public to examine a proposal including the portion or portions thereof for which a confidentiality request has been made, the Authority will so notify the proposer and will keep confidential that portion of the proposal covered by the confidentiality request, pending action by the proposer requesting confidentiality to defend its

request. In that notification, the proposer requesting confidentiality will be given not more than five (5) calendar days within which to file suit in Polk County District Court seeking the entry of a declaratory order and/or injunction to protect and keep confidential such portion of its proposal. Absent such action by a proposer requesting confidentiality, and absent the entry of a court order declaring such portion or portions of the proposal confidential, the entire proposal will be released for public examination.

If the process for selecting the best proposal includes two or more evaluation stages, in which qualifications are evaluated at each stage and the field of competing qualifications is reduced, all qualifications submitted shall be kept confidential, pursuant to Section 22.7 of the Iowa Code, subsection 6 cited above, until completion of the final stage of the evaluation process in order to avoid giving advantage to competing proposers. Upon completion of the final stage in the evaluation process, all competing qualifications shall be subject to disclosure; if not otherwise determined confidential as above provided.

#### **14. Forms**

The following forms are required to be submitted with the proposal in addition to any other information required within this RFP or for which the Proposer would like considered in the selection of Proposers equipment.

- |               |                                 |
|---------------|---------------------------------|
| <b>Form 1</b> | <b>Non-Collusion Affidavit</b>  |
| <b>Form 2</b> | <b>Proposal Submission</b>      |
| <b>Form 3</b> | <b>References</b>               |
| <b>Form 4</b> | <b>Price Proposal</b>           |
| <b>Form 5</b> | <b>Specification Compliance</b> |

**FORM 1  
NON-COLLUSION AFFIDAVIT**

The Proposer hereby certifies under penalty of perjury:

1. That this proposal is not affected by, contingent on, or dependent on any other proposal submitted for any improvement for the Des Moines Airport Authority; and
2. That no individual employed by the Proposer was paid or will be paid by any person, corporation, firm, association, or other organization for soliciting the proposal, other than the payment of their normal compensation to persons regularly employed by the Proposer whose services in connection with the making of this proposal were in the regular course of their duties for the Proposer; and
3. That no part of the compensation to be received by the Proposer was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the proposal, other than the payment of their normal compensation to persons regularly employed by the Proposer whose services in connection with the making of this proposal were in the regular course of their duties for the Proposer; and
4. That this proposal is genuine and not collusive or sham; that the Proposer has not colluded, conspired, connived or agreed, directly or indirectly, with any other proposer or person, to put in a sham proposal or to refrain from making a proposal, and has not in any manner, directly or indirectly, sought, by agreement or collusion, or communication or conference, with any person, to fix the proposal price of Proposer or any other Proposer, or to otherwise restrain freedom of competition, and that all statements in this proposal are true; and
5. That the individual executing this proposal has the authority to execute this proposal on behalf of the Proposer.

\_\_\_\_\_  
Proposer

\_\_\_\_\_  
Signature

By \_\_\_\_\_  
Name (print/type)

\_\_\_\_\_  
Title

\_\_\_\_\_  
Street Address

\_\_\_\_\_  
City, State, Zip Code

**FORM 2  
PROPOSAL SUBMISSION**

**This Proposal is submitted by:**

Company Name: \_\_\_\_\_

Representative (printed): \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Telephone: \_\_\_\_\_

E-Mail Address: \_\_\_\_\_

State of Incorporation: \_\_\_\_\_

Business Type (circle one):

Corporation Partnership - Sole Proprietorship - Joint Venture - Limited Liability Corporation

Other (Specify) \_\_\_\_\_

Confirm each item below by initialing.

(A) \_\_\_\_\_ Addenda acknowledgement. Note each addendum acknowledged below.

Addendum #	Date Issued
_____	_____
_____	_____
_____	_____

(B) \_\_\_\_\_ Proposal document has been signed by authorized official.

(C) \_\_\_\_\_ Proposal package has been properly labeled per the special instructions.

(D) \_\_\_\_\_ Proposal Response Package Forms 1-5 Included

It is understood by the Proposer that the Airport Authority reserves the right to reject any and all Proposals and that I understand the requirements of this RFP.

\_\_\_\_\_  
Company Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Authorized Signature

\_\_\_\_\_  
Print Name

**FORM 3  
REFERENCES**

Provide airport name, address, contact person, telephone number, and appropriate information on the similar product(s) provided (use additional forms if needed) with requirements similar to those included in this solicitation document.

NAME OF AIRPORT:	
STREET ADDRESS:	
CITY, STATE, ZIP:	
CONTACT PERSON:	
PHONE #:	
EMAIL:	
Products Provided:	
<hr/>	
NAME OF AIRPORT:	
STREET ADDRESS:	
CITY, STATE, ZIP:	
CONTACT PERSON:	
PHONE #:	
EMAIL:	
Products Provided:	

History of company:

Years in business:

Other similar products sold:

*Attach additional information as needed.*

**FORM 4  
PRICE PROPOSAL**

**Proposing Company** \_\_\_\_\_

For the price(s) listed below, in US Dollars, our firm hereby offers to provide the following item(s) in accordance with the specifications of this proposal.

One new Truck Mounted Passenger Airstairs per specifications including delivery FOB to Authority maintenance facility.

Chassis Year/Make/Model: \_\_\_\_\_

Nearest service/parts location: \_\_\_\_\_

Estimated delivery date: \_\_\_\_\_

Not to exceed delivery date: \_\_\_\_\_

**TOTAL DELIVERED PRICE:**     \$ \_\_\_\_\_

**OPTIONAL ITEMS TO BE SELECTED AT DISCRETION OF AUTHORITY:**

Provide pricing for up to 8 hours of operator and maintenance technician training to be held at the Des Moines Airport:

Price for on airport training: \$ \_\_\_\_\_

Provide pricing for the installation of one (1) ICOM IC-A110-05 VHF Radio with ITH external speaker and one (1) Motorola APX 1500 with external speaker to include all wiring harnesses, antennas, and ancillary connections to make radio system fully operable.

Price for radio installations: \$ \_\_\_\_\_

Provide pricing for extended 12-month warranty on non-chassis equipment (Total 24 months from when unit is put into service).

Price for extended warranty period: \$ \_\_\_\_\_

**FORM 5**  
**SPECIFICATION COMPLIANCE**

<b>A.</b>	<b>General Configuration</b>	<b>COMPLIES</b>	<b>DOES NOT COMPLY</b>
1.	Minimum chassis size of one (1) ton.		
2.	Vehicle will be suitable for travel over public roads.		
3.	Vehicle shall be designed and line built by the original manufacturer as a 4 x 2.		
4.	Minimum of 4 hydraulic stabilizers.		
5.	Upper platform has side retractable forward side panels.		
6.	Vehicle cab can accommodate 2 persons and also has a roof window.		
7.	One (1) person operation.		
8.	Locking device to assure uniform height of telescopic stairs.		
9.	Emergency lowering manual pump.		
10.	Amber rotating beacon. Federal Signal Corp. Part 452112-02, Target Tech Highlighter.		
11.	Back-up audio signal.		
12.	Cold weather equipped for operation in sustained temperatures to 0°F.		
<b>B.</b>	<b>General Standards</b>		
1.	All wiring shall be sufficiently sheathed and properly routed and retained to prevent damage from chafing.		
2.	All fluid fill points (fuel, hydraulic fluid, coolant, etc.) shall be clearly marked.		
3.	All instruments, breakers, fuses and controls labeled in a manner to remain legible for the life of the unit.		
4.	Aluminum handrails.		
5.	Hydraulically operated/extending platform.		
6.	Heavy-duty bumpers.		
7.	Emergency 12-volt hydraulic power pack.		
8.	Platform contact sensor.		
9.	Instructional placards to be provided and installed.		
<b>C.</b>	<b>Engine Assembly</b>		
1.	8-cylinder, gas powered, heavy-duty automatic transmission.		
2.	EPA emission certified.		
3.	Electronic controls for fuel injection and engine management.		
4.	12-volt starter.		
5.	115-amp alternator.		
6.	Engine block heater.		
7.	Heavy-duty suspension.		
<b>D.</b>	<b>Chassis</b>		



1.	Ford F-350 or comparable, dual rear wheels.		
2.	Heavy-duty automatic transmission and power steering.		
3.	Minimum 141 in. wheelbase.		
4.	Main frame made out of steel tubular structure.		
5.	Master battery disconnect switch.		
6.	Chassis shall be painted yellow or per Airport Authority as approved prior to production.		
7.	Airport logo (2) and vehicle number lettering (3) as approved by Airport Authority prior to production.		
<b>E.</b>	<b>Height Range</b>		
1.	Minimum of 96 in. low position and 226 in. high position and shall service the following aircraft at a minimum: A-300, A-310, A-318, A-319, A-320, A-321, A-330, A-340, A-380 lower doors, B707, B727, B-737, B747, B-757, B-767, B-777, L-1011, DC-8, DC-9, DC-10, F-28-F-100, MD-11, MD-80, TU-154, TU-154B, T-154B		
<b>F.</b>	<b>Stair Capacity</b>		
1.	Minimum 900 lbs. Platform.		
2.	Minimum 200 lbs. Each step.		
3.	Rubberized stair treads and platform.		
4.	Minimum of 10 lights on stairway mounted alternately on each side, minimum of one light mounted at rear of each side of the platform, and one adjustable floodlight for aircraft doorway illumination.		
<b>G.</b>	<b>Minimum Stair Dimensions</b>		
1.	Normal tread depth 10 in.		
2.	Normal tread width (lower section) 42 in.		
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4.	Top platform width 64 in.		
5.	Top platform depth 87 in.		
6.	Intermediate landing depth 19 in.		
7.	Constant riser height 7.85 in.		
<b>H.</b>	<b>Hydraulic System</b>		
1.	Single stage cylinder.		
2.	Manually activate valves.		
3.	Engine driven pump.		
4.	System pressure of 1,200 psi.		
5.	Hydraulic tank with breather cap and dipstick.		
6.	Manually operated auxiliary pump.		
7.	Mechanical interlocks to hold stairs in place if hydraulic pressure is lost.		
8.	Hoses for all systems of proper size and strength to work with the pressure and volume of oil required. All hoses will be routed and retained in a manner not to interfere with routine maintenance and will be properly hung and		

	encased to prevent chafing. Hoses will not be in contact with any edges.		
9.	Fluid and components design for temperature to -20 degrees F ambient cold start.		
10.	Hydraulic tank heater for winter plug-in.		
11.	Shut-off ball valve at the hydraulic tank.		
12.	Hydraulic system pressure gauge.		
<b>I.</b>	<b>Controls and Instruments.</b>		
1.	Control panel in cab and exterior location determined by the Airport to operate complete unit.		
2.	Power, stabilizers down and stair light indicators.		
4.	All instrumentation and controls shall be labeled in a manner to remain legible for the life of the unit and shall be illuminated (in on and off position). All wiring shall be either harness, cable, split loomed, or shrink-wrapped. All wiring shall be color-coded, wire numbered matching drawing schematics and terminal strip, and labeled every 3 inches. The gauge wire and processes shall be in accordance with common wiring practices, SXL insulation type.		
5.	Dash mounted hour meter.		
<b>J.</b>	<b>Manuals. (As-Builts for Units Delivered)</b>		
1.	Operator manuals (2 sets) covering description, operating, troubleshooting, maintenance, and overhaul. Manuals shall include pre-operation checklists and lubrication charts. Digital copies of all manuals to be included on a USB drive.		
2.	Maintenance and troubleshooting manual. Manual shall include as-built wiring diagrams and complete schematics (electrical, hydraulic, pneumatic, etc.).		
3.	Parts manual with exploded view assembly drawings for each subassembly. Parts manual shall list original manufacturer's nomenclature and part number, and a cross-reference with name and address of each manufacturer.		
4.	Shop repair manual including ABS system.		
5.	Service/part manuals for installed equipment that is supplied by other parties.		
<b>K.</b>	<b>Delivery.</b>		
1.	The proposer is responsible for the safe and timely delivery of airstair unit.		
2.	Upon delivery, proposer is responsible for assembling all components to ensure airstair unit is fully operational.		
<b>L.</b>	<b>Startup and Training.</b>		
1.	Train the trainer operator training at the manufacturer's office provided at no additional cost to the airport.		



**FORM 6  
PRODUCT DATASHEET**

Upon delivery, proposer shall present airport with completed datasheet information showing vehicle airstair specifications listed in this form.

Full payment shall be made upon delivery and acceptance by the Authority in accordance with RFP specifications.

Item	Data
Model Number	
Serial Number	
Engine Make and Model	
Engine Type/Size	
Engine Serial Number	
Engine Oil Type	
Oil Quantity	
Oil Filter Part Number	
Air Filter P/N	
Coolant Filter P/N	
Hydraulic Fluid Type	
Hydraulic Fluid Quantity	
Hydraulic Filter P/N	
Fuel Filter P/N	
Pump Gearbox Fluid Type	
Gearbox Fluid Quantity	
Weight of Unit	

Provide any data on hydraulic pressures of unit when in operation to establish base line for operation and maintenance.