



2011-IESALC
Wilmington, NC

Survey of Denver Int'l Airport

Outdoor Lighting for the Airport Environment

Airside Areas

- Aprons – commercial, general aviation, cargo
 - Aircraft fueling, mechanical checks and repairs, engine run-up
 - Loading bags, cargo, catering
 - Passenger loading
- Other airside facilities
 - De-icing facilities
 - Maintenance facilities
 - Ground services

Landside areas

- Roadways, Pedestrian Ways
 - Departure and arrival areas
 - Surrounding roadways
 - Roadway lighted signage
 - Secure Access Points
- Parking
- Other
 - Laser sensitive areas
 - Landscaping
 - Signs
 - Flagpoles

Table 4.1 Recommended Light Levels

TABLE 4.1 - LIGHTING DESIGN SUMMARY

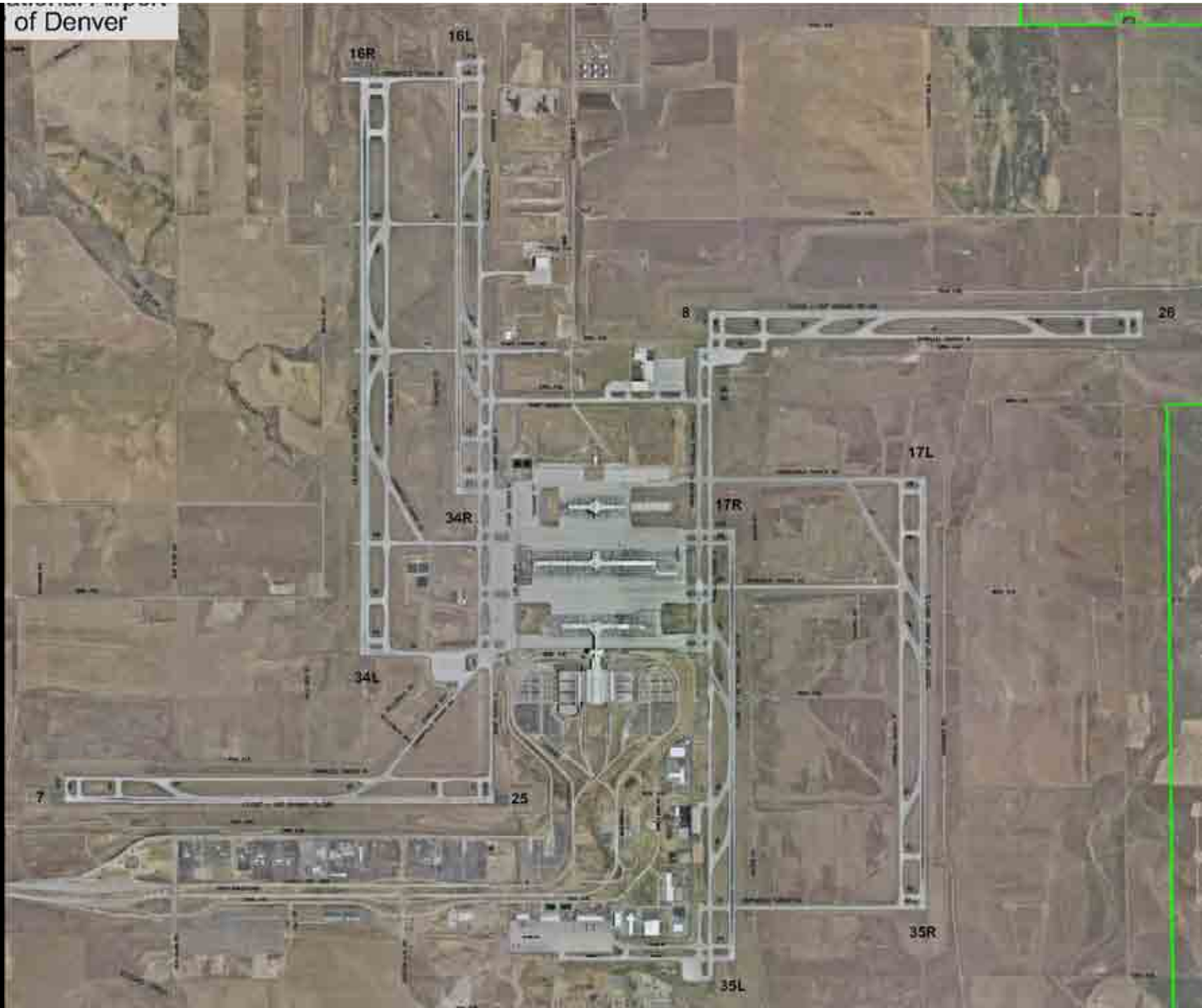
	Design Issues														
	Reference, Lux (Horizontal) Average unless otherwise noted	Reference, Lux (vertical)	Luminance, Candela/m ²	Uniformity Ratio (average to minimum)	Glare	Shadow	Appearance of Space and Luminaires (Note 4)	Color Appearance of Objects (low color discrimination)	Identification of Faces	Identification of Objects	Equipment Aesthetic Appearance	Height and Position of Pole	Security / Safety	Emergency Power	Reference Sections) in RP-17 text
Aprons: Commercial, General Aviation, Cargo, Hangar															
Aircraft Stand															
Aircraft Parked Position	50 c	50 b		4:1	V	V	S	I	I	V	S	V	V	I a	
Aircraft Service Area	25 c	NA		5:1	V	V	S	I	I	V	S	V	V	I a	
Aircraft Stands (Group I or Code A)	20 c	20 b		5:1	V	V	S	I	I	V	S	V	V	I a	
Cargo Facility Loading and Unloading	50 c	50 b		4:1	I	I	S	I	S	V	S	V	I	I a	
Mechanical checks, Maintenance and Repair	50 c	50 b		4:1	V	V	S	V	S	V	S	V	I	I a	
Fueling Operations	50 c	50 b		4:1	V	V	S	V	S	V	S	V	I	I a	
Other Airport Facilities															
De-icing Areas	50 c	20		4:1	V	V	S	I	I	V	S	V	S	I a	
De-ice Storage Facility and Truck Loading	100 c			4:1	S	S	S	S	S	I	S	I	S	S a	
Fuel Facilities	50 c			4:1	S	S	S	S	S	I	S	I	I	I a	
Ground Service Equipment (GSE) Storage Areas	20 c			4:1	S	S	S	S	S	I	S	I	S	S a	
Engine Run-up/Test Area (Hush House)	100 c	100		2:1	I	I	----	I	----	V	S	V	S	----	
Roadways, pedestrian ways															
Departure, Arrival Areas	Coordinating with RP-8				V	I	I	V	V	V	S	I	V	I a	
Walkways from Parking Facility to Terminal					I	I	I	V	V	I	I	S	V	S a	
Surrounding Roadways					V	----	I	S	S	I	----	I	S	S a	
Roadway Signage					V	----	S	V	N/A	----	I	S	----	S a	
Secure Access Point					V	V	S	V	V	V	S	I	V	V a	
Parking															
Surface Parking Lot/ Vehicle Staging Area	10			4:1	V	I	S	I	I	I	S	I	V	S a	
Parking garage top level	10			4:1	V	I	S	I	I	I	S	I	V	S a	
Parking Entrance/Exit	15			4:1	V	I	S	I	I	I	S	S	V	I a	
Toll plaza	20			4:1	V	I	S	I	I	I	S	S	V	I a	
Other Exterior Lighting															
Landscaping, façade illumination, etc.					V	----	V	V	N/A	I	V	S	S	S a	

1 Lux = 0.1fc

V VERY IMPORTANT
 I IMPORTANT
 S SOMEWHAT IMPORTANT
 N/A NOT APPLICABLE
 ---- TYPICALLY NOT WITHIN THE SCOPE OF THIS DOCUMENT

LEGEND

a Subjective for each Airport
 b Vertical Measurement at 2m
 c End user may require the use of Supplemental Lighting







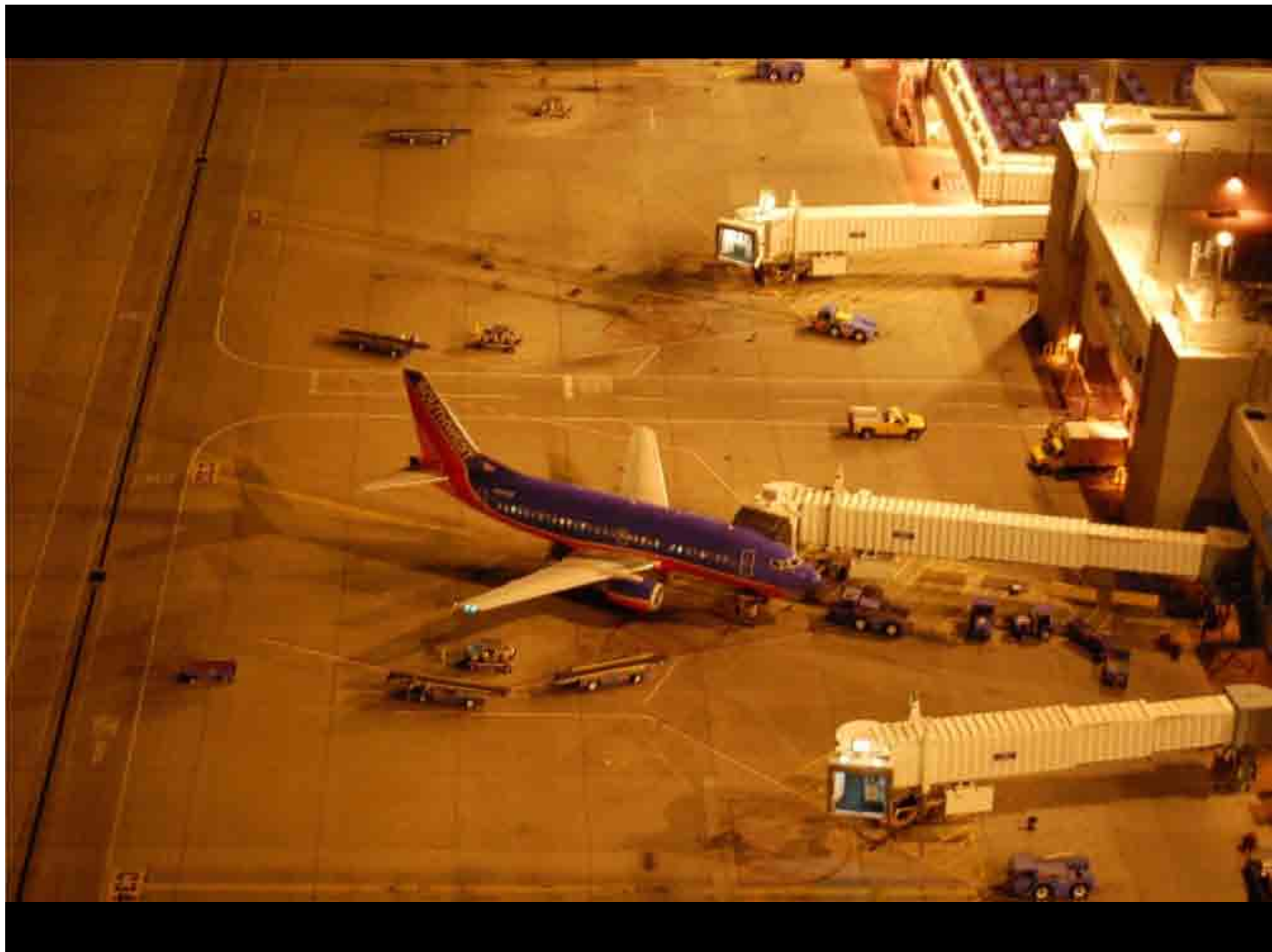
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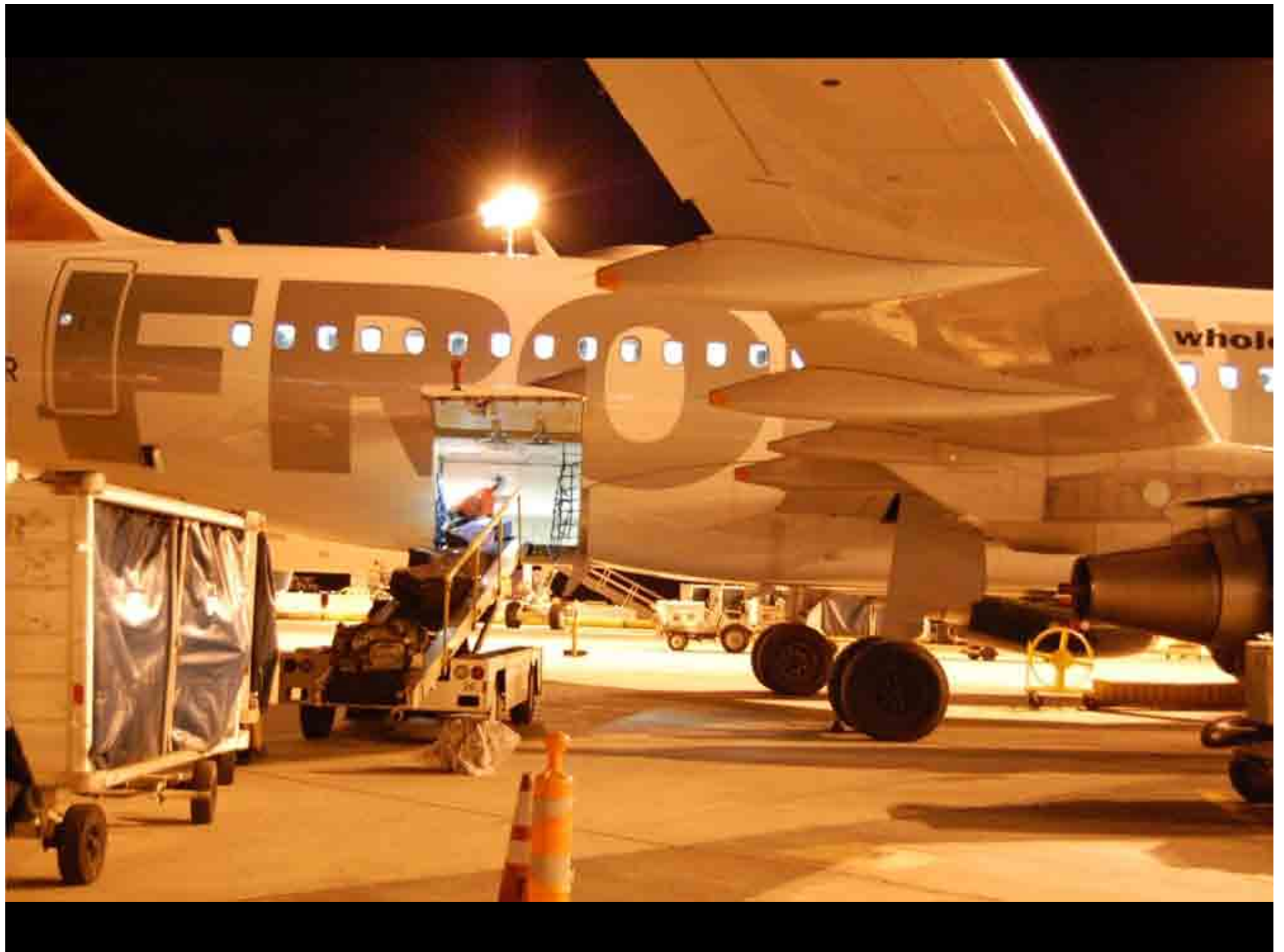


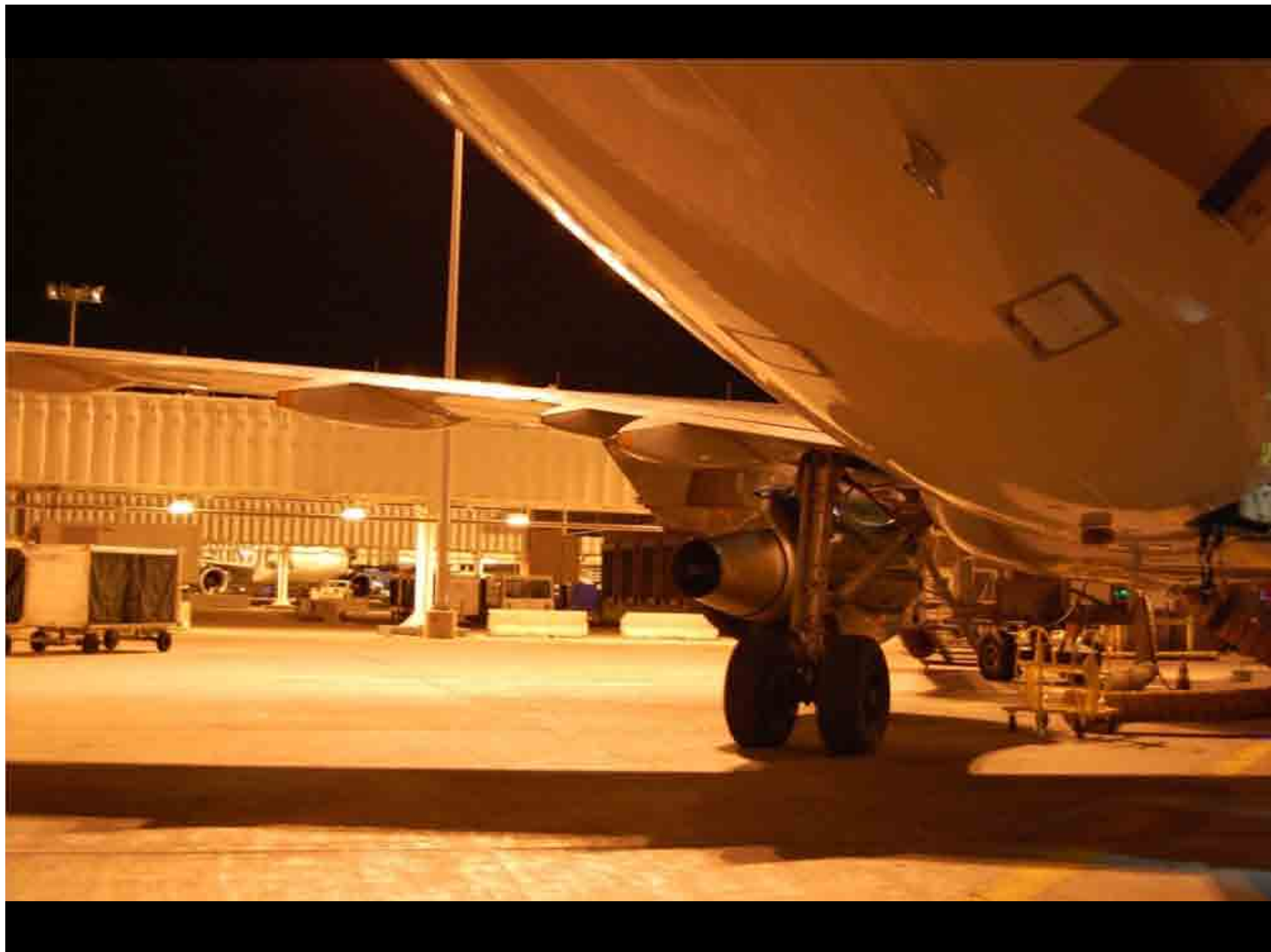
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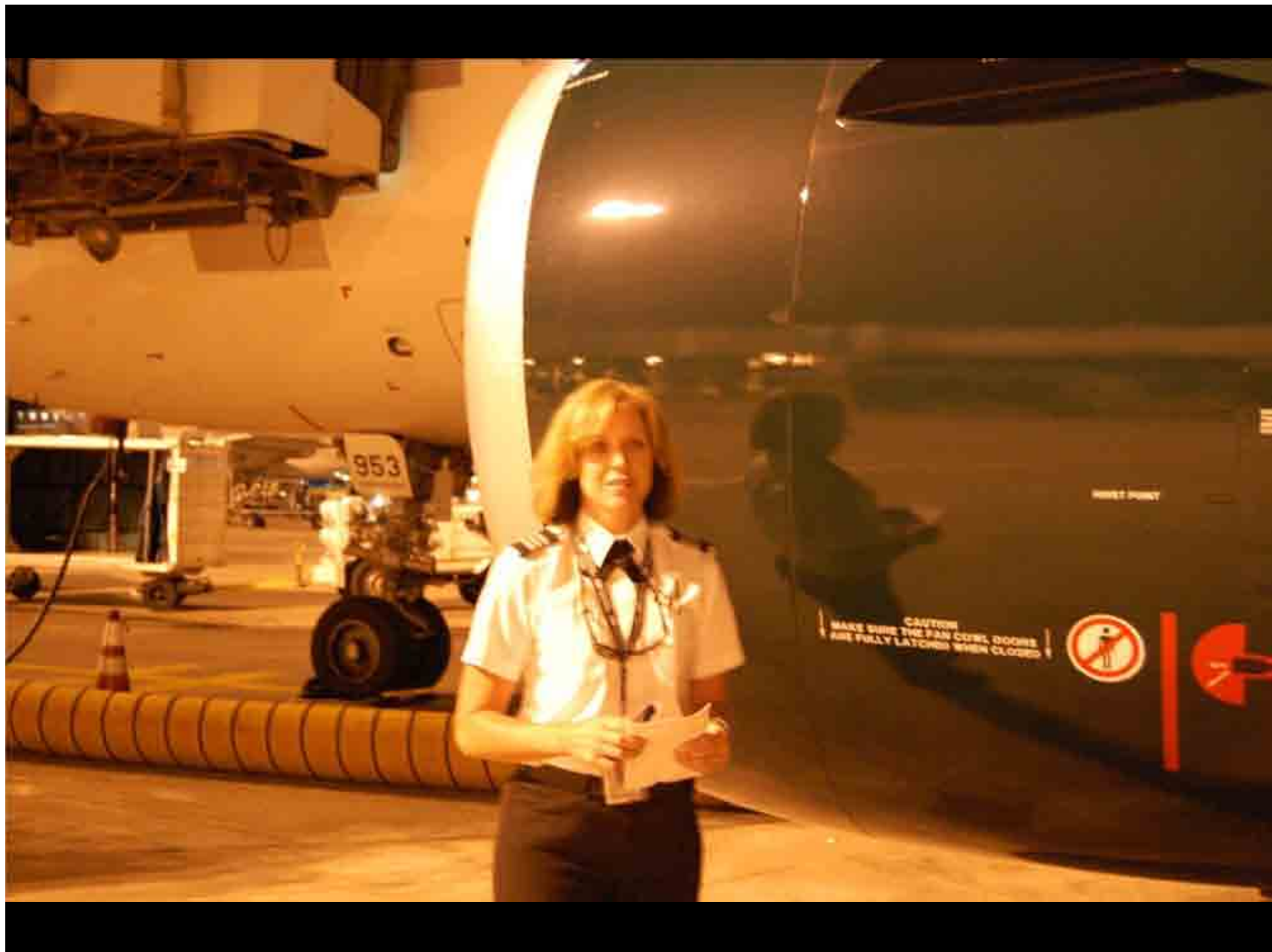


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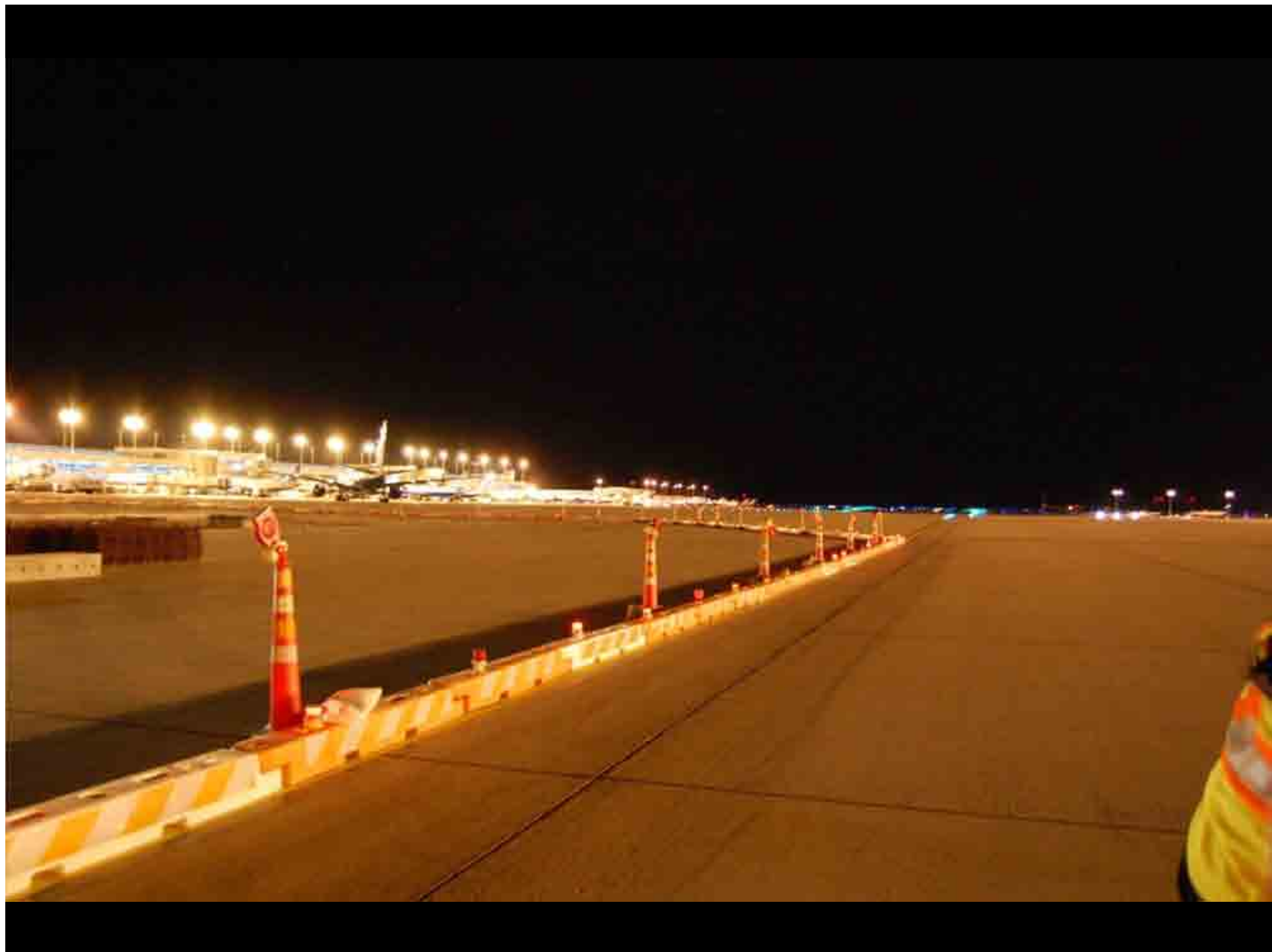




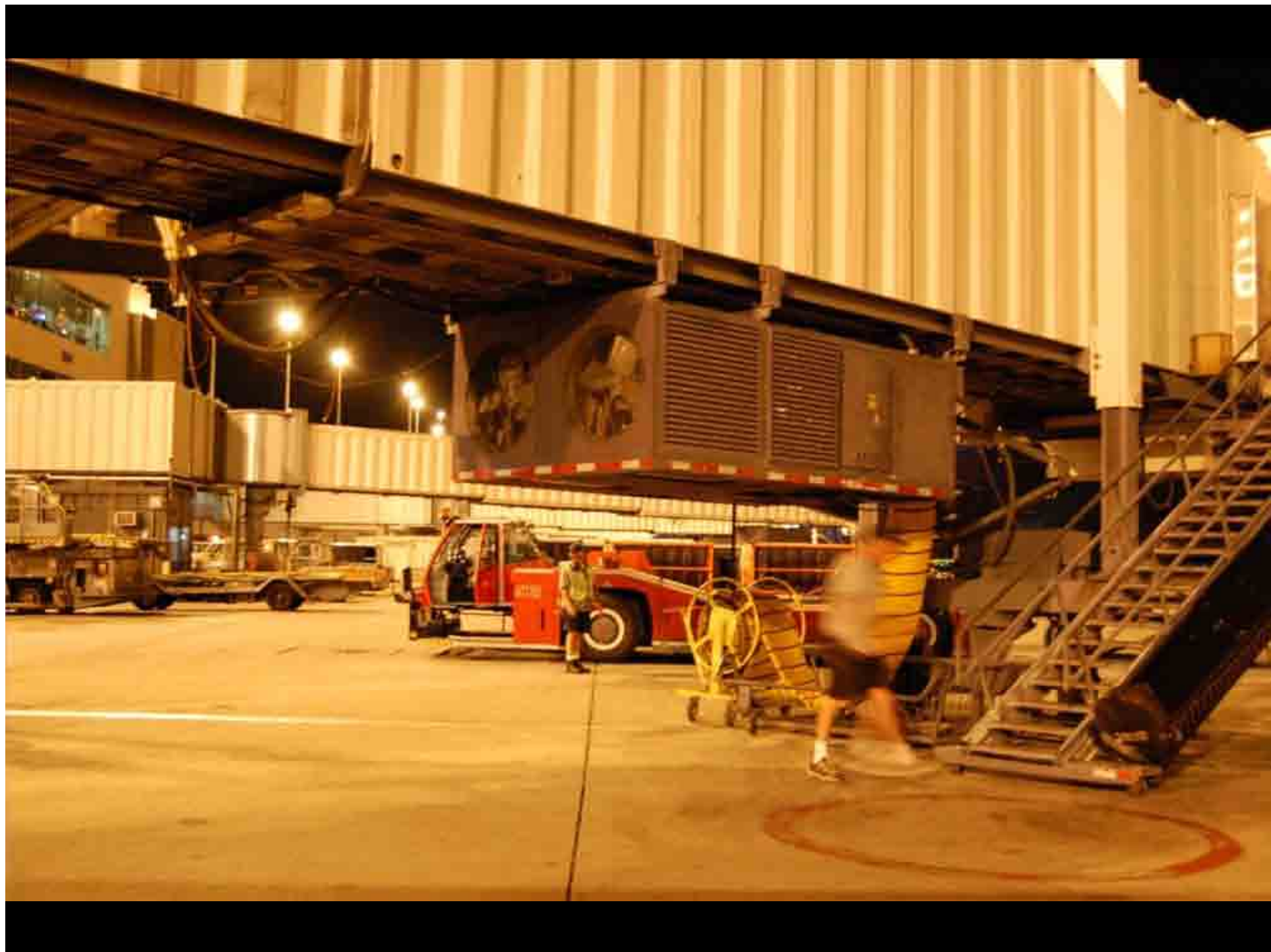


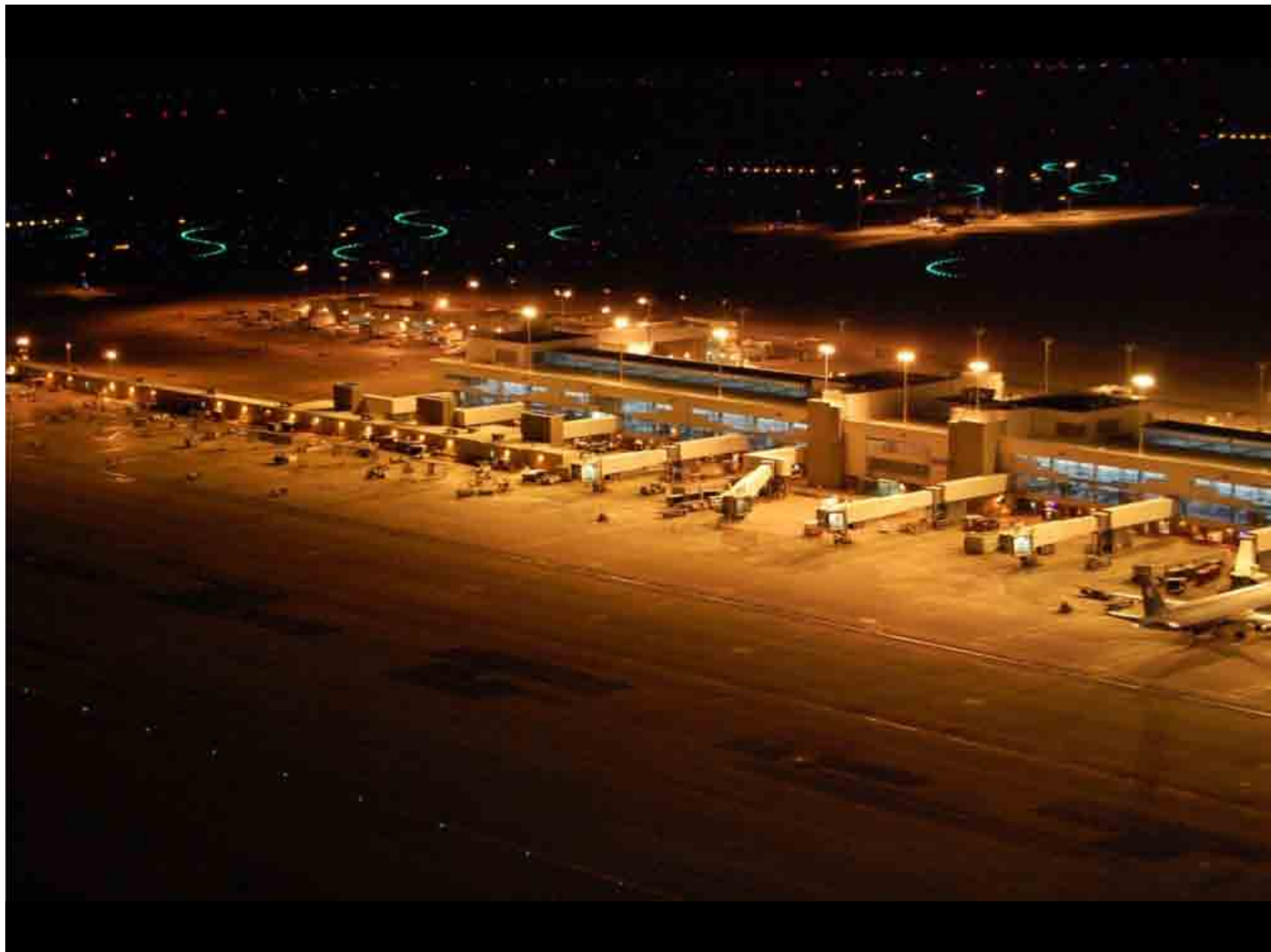


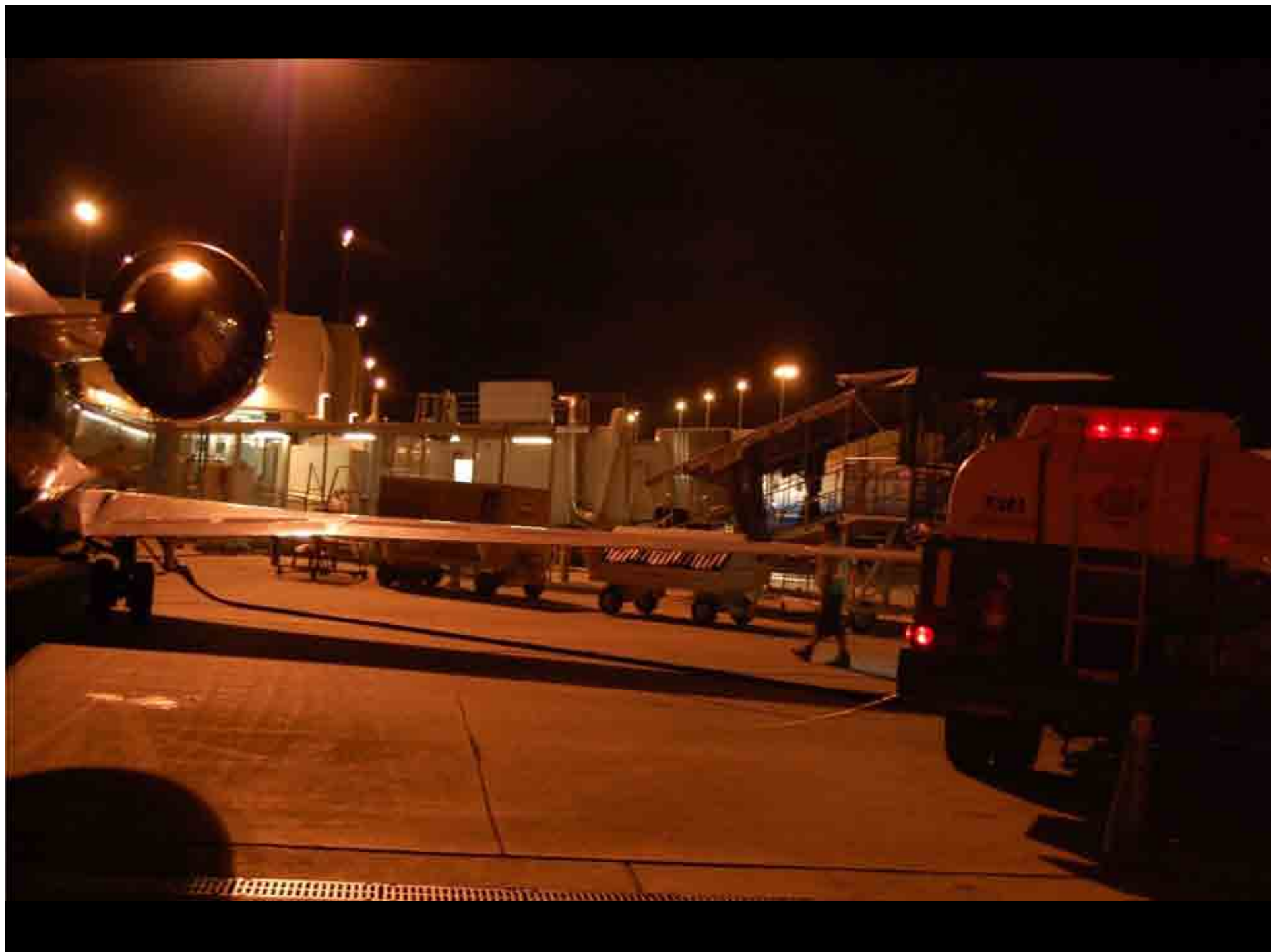


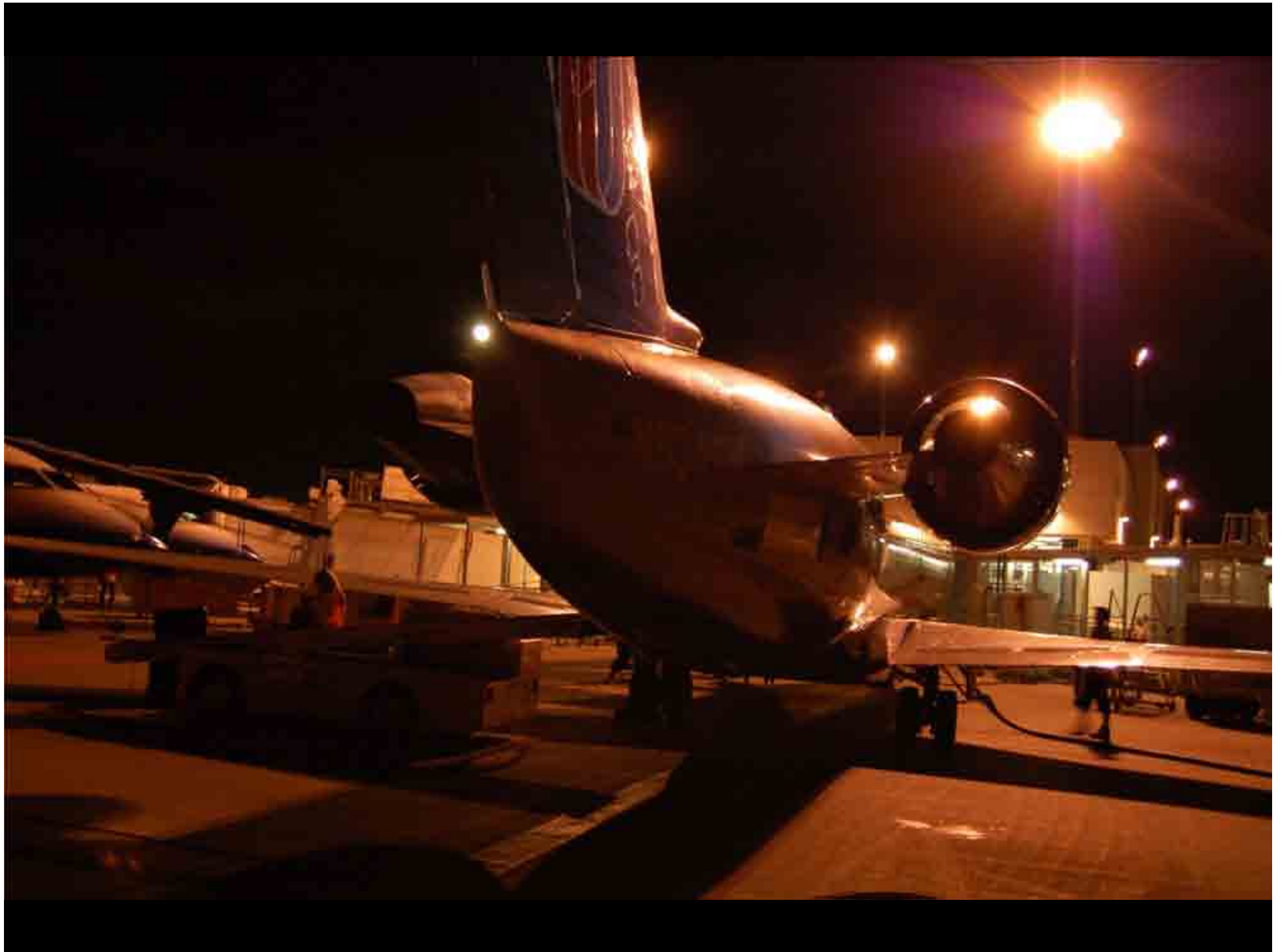


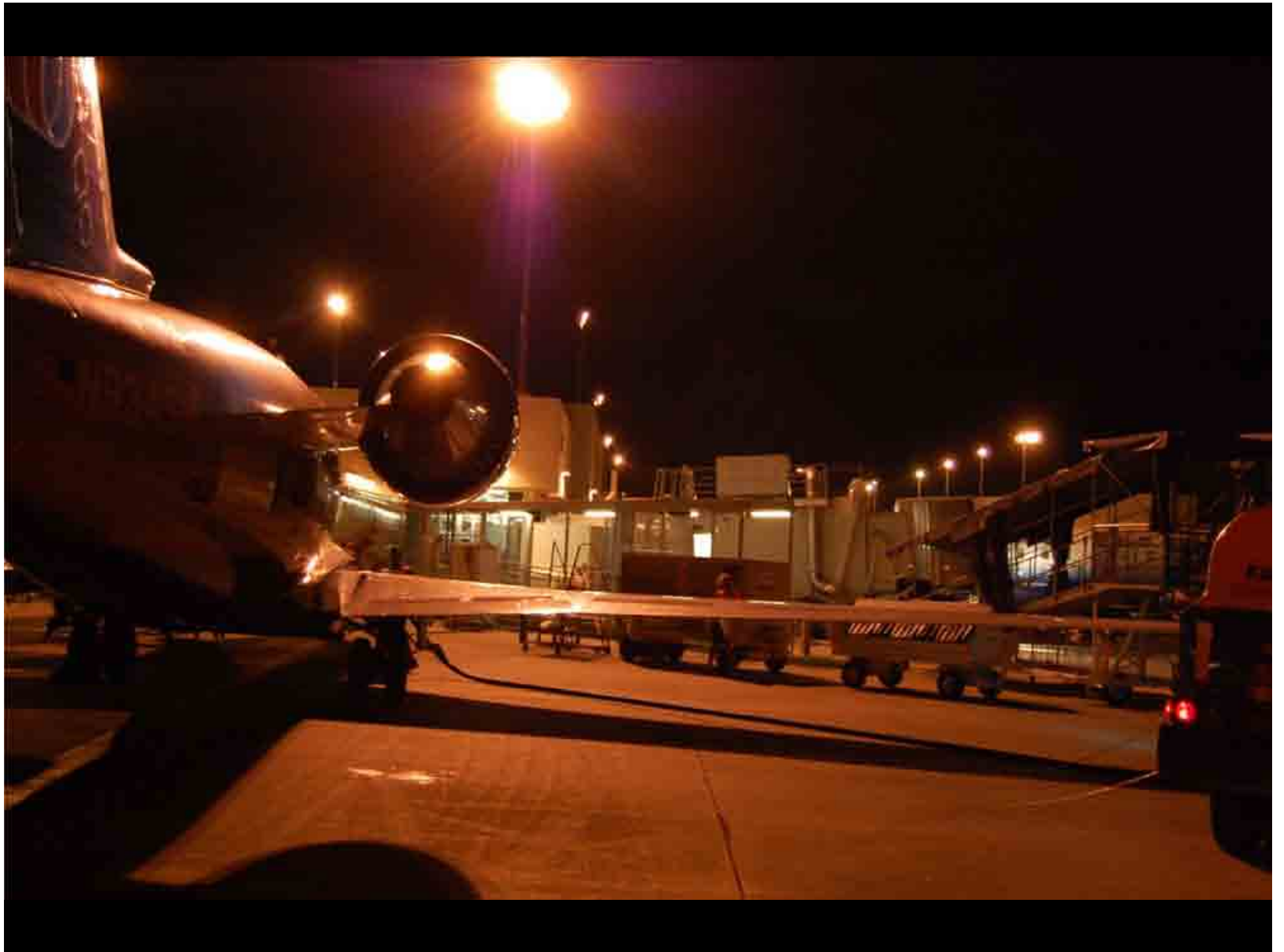






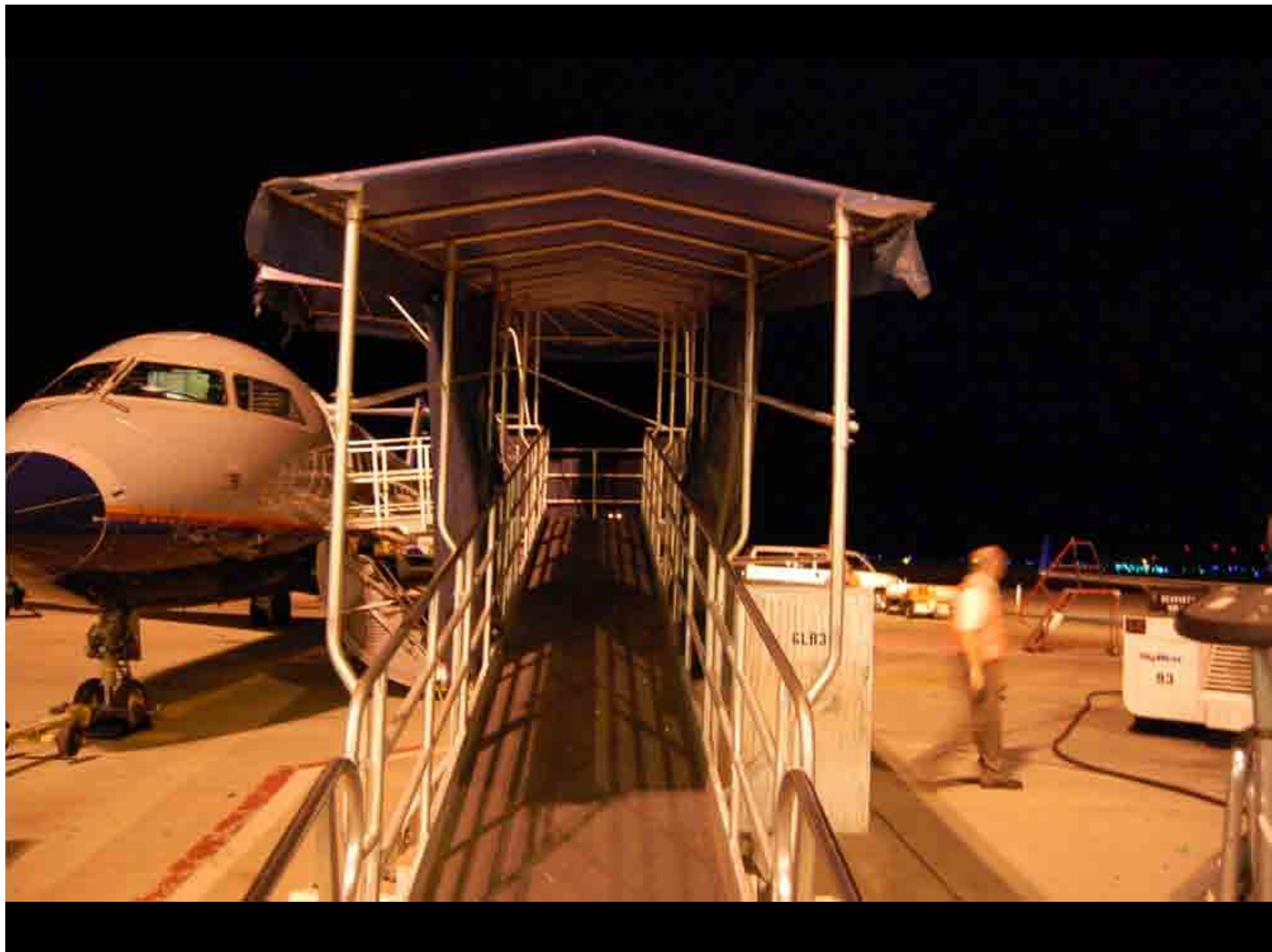
























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