CHANGE 11

**DATE** 2/25/81

## ADVISORY CIRCULAR

CHANGE



DEPARTMENT OF TRANSPORTATION
Federal Aviation Administration
Washington, D.C.

Subject: Change 11 to STANDARDS FOR SPECIFYING CONSTRUCTION OF AIRPORTS—Reflects Changes to Federal Specifications

1. <u>PURPOSE</u>. Item P-620, Runway and Taxiway Painting, has been revised to reflect changes to Federal Specifications TT-P-1952 and TT-P-85. Minor editorial changes have been made in the text.

The Change number and date of changed material are carried at the top of each page. Changed material is indicated by asterisks in the margin.

## PAGE CONTROL CHART

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LEONARD E. MUDD

Acting Associate Administrator for Airports

ITEM P-620 RUNWAY AND TAXIWAY PAINTING	1.5
1. DESCRIPTION	3
1.1 This item shall consist of the painting of numbers, markings, and stripes on the surface of runways and taxiways applied in accordance with these specifications and at the locations shown on the plans, or as directed by the Engineer.	5 7 8 9
2. MATERIALS	11
2.1 PAINT. Paint shall meet the requirements of Federal Specification [**] [and TT-P-110.]  ***********************************	14 16 20.1 21 23 25 26 26 27.2
2.2 [REFLECTIVE MEDIA. Glass spheres shall meet the requirements of Federal Specification TT-B-1325, Type III, gradation A.]  ***********************************	33 35 36 * 40.1 41 42 43 43 44.2
3. CONSTRUCTION METHODS	49
3.1 <u>WEATHER LIMITATIONS</u> . The painting shall be performed only when the surface is dry, when the atmospheric temperature is above 45 degrees F (7 degrees C), and when the weather is not foggy or windy.	52 53 54 54
3.2 EQUIPMENT. All equipment for the work shall be approved by the Engineer and shall include the apparatus necessary to properly clean the existing surface, a mechanical marking machine, and such auxiliary hand-painting equipment as may be necessary to satisfactorily complete the job.	57 58 59 60 61
The mechanical marker shall be an atomizing spray-type marking machine suitable for application of traffic paint. It shall produce an even and uniform film thickness at the required coverage and shall be designed so as to apply markings of uniform cross sections and clear-cut edges without running or spattering.	63 65 65 66 67

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ITEM P-620 RUNWAY AND TAXIWAY PAINTING 1.5 1.6 3.3 PREPARATION OF SURFACE. Immediately before application of 70 the paint, the surface shall be dry and free from dirt, grease, 72 oil, laitance, or other foreign material which would reduce the bond between the paint and the pavement. The area to be painted 75 77 shall be cleaned by sweeping and blowing or by other methods as 78 required to remove all dirt, laitance, and loose materials. 80 Paint shall not be applied to portland cement concrete pavement 82 until the concrete in the areas to be painted is clean of curing 83 material. Sandblasting or high pressure water shall be used to 84 remove curing material from concrete surfaces.) 85 3.4 LAYOUT OF MARKINGS. On those sections of pavement where no 88 previously applied markings are available to serve as a guide, 89 the proposed markings shall be laid out in advance of the paint 90 application. 91 APPLICATION. Markings shall be applied at the locations and 94 to the dimensions and spacing shown on the plans. Paint shall 96 not be applied until the layout and condition of the surface have 97 97 been approved by the Engineer. The paint shall be mixed in accordance with the manufacturer's 99 instructions and applied to the pavement with a marking machine 100 at the rate of 100 to 110 square feet (9 to 10 square meters) per gallon (liter). The addition of thinner will not be permitted. 101 102

] shall elapse between placement of a

bituminous surface course or seal coat and application of the

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The edges of the markings shall not vary from a straight line more than 1/2 inch (12 mm) in 50 feet (15 m), and the dimensions shall be within a tolerance of plus or minus 5 percent. [Glass spheres shall be distributed to the surface of the marked areas immediately after application of the paint. A dispenser shall be furnished which is properly designed for attachment to the marking machine and suitable for dispensing glass spheres. The spheres shall be applied at the rate of 10 pounds per gallon (1.2 kg per liter) of paint.]

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A period of [\*\*