

SUPERSEDED BY EB 24-026 EFFECTIVE 6/4/24		New York State Department of Transportation ENGINEERING INSTRUCTION	EI 96-005
Title: METRIC CONVERSION FACTORS FOR ASPHALT AND CONCRETE PRODUCTION FACILITIES			
Distribution: ☐ Manufacturer (18) ☐ Surveyors (33) ☒ Main Office (30) ☒ Consultants (34) ☐ Local Govt. (31) ☒ Contractors/AGC (39) ☒ Regions (32) ☐ _____ ()		Approved:  P. J. Clark, Deputy Chief Engineer, Design Division 01/30/96 Date	

EFFECTIVE DATE: This Engineering Instruction will be effective on receipt.

PURPOSE: This Instruction establishes conversion factors for metricating asphalt concrete and Portland cement concrete quantities at their respective manufacturing facilities.

BACKGROUND: On 11/21/94, the Materials Bureau issued a memorandum establishing automation requirements for asphalt and concrete production facilities. This memorandum requires all plant automation systems installed after 10/01/96 be capable of producing output in Metric units. This includes scales, digital readouts, recorded quantities, and temperature.

A grandfather clause has been created to address the issue of existing plant automation systems which produce output in "Customary English" units. Any **existing** plant automation system which produces output in "English" units will be allowed to supply material to Department contracts, provided a Metric conversion is made when a Metric contract is supplied. After 1/2/2000, all approved plants must be capable of producing output in Metric units. Producers may install Metric capable automation equipment at any time beginning now.

CONVERSION FACTORS: As of the effective date of this issuance, the following conversion factors shall be used by the Producers to convert material quantities between the two systems:

ENGLISH TO METRIC	METRIC TO ENGLISH
Tons X (0.9072) = Metric Tons (Mg)	(Mg) Metric Tons X (1.1023) = Tons
Cubic Yards X (0.7646) = Cubic Meters	Cubic Meters X (1.3080) = Cubic Yards

These values will establish uniformity when converting material quantities at plants throughout the state. When necessary, the Producers shall manually convert material quantities delivered to Department projects on 1) truck tickets and 2) daily plant reports (BR 343). The Regional Materials Engineer shall distribute a copy of this instruction to all approved production facilities in their region supplying Department projects. Questions concerning this Instruction may be addressed to Paul Ducharme of the Materials Bureau at (518) 457-4582.