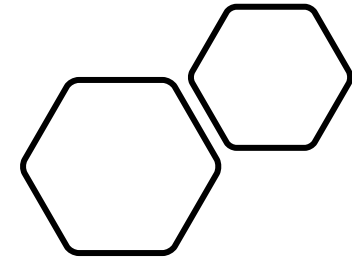


PennDOT Updates: eCAMMS, Aggregate eCerts, EPDs, ECMS and eTicketing

Sherry Hartman

**Laboratory Systems Management Section
in the
Engineering Automation & Support Division
of the
Bureau of Construction & Materials**

I	L	E	P	E	J	O	Y	C	P	C	J	C
S	D	P	I	P	N	E	R	S	B	A	N	O
J	Y	D	H	R	M	T	V	A	U	S	Z	L
H	T	S	S	I	T	I	R	F	B	P	S	L
A	I	V	R	X	A	C	S	E	Z	H	Q	A
P	L	X	E	S	N	K	B	X	A	A	X	B
P	A	T	N	E	C	E	R	T	S	L	P	O
Y	U	S	T	W	X	T	Y	E	Z	T	B	R
U	Q	X	R	N	E	I	S	G	K	P	R	A
G	R	Y	A	D	K	N	J	E	C	M	S	T
P	D	C	P	Z	N	G	D	A	F	I	Z	I
A	P	E	N	N	D	O	T	U	U	V	A	O
E	C	A	M	M	S	C	M	W	N	C	P	N



eCAMMS – Releases Over the Past Year



The screenshot shows the eCAMMS user interface. At the top left is the eCAMMS logo, which consists of a yellow stylized 'e' followed by the word 'CAMMS' in white. Below the logo is a white login form with two input fields: 'Username' and 'Password'. The 'Password' field has a small 'Show' checkbox to its right. Below the form is a blue 'SIGN IN' button. Underneath the button are two links: 'Forgot your username?' and 'Forgot your password?'. At the bottom is a dark blue 'REGISTER' button.

- Release 46 – April 2025
- Release 47 – May 2025
- Release 48 – July 2025
- Release 49 – September 2025
- Release 50 – November 2025
- *Upcoming Release 51 – March 2026*

eCAMMS – Release 46 (April 2025)

JMF Changes

Concrete JMF – Admin configurable Volume of Water specification by Material Classification

Asphalt JMF – Admin configurable ESAL range specification by Material Classification.....

IDEAL CT & Hamburg Design JMF subpages – JMF Copy functionality.....

IDEAL CT & Hamburg Design JMF subpages – Date Validations.....

IDEAL CT JMF subpage– Data Validation Enhancement

IDEAL CT JMF subpage– Deleting Specimen

ESB Changes.....

ESB Shipment Entry – Show Unlisted Products Checkbox.....

Amended Client Report Notification: Updated Survey Link

eCAMMS – Releases 47 (May 2025)

Job Mix Formula Gravity Consensus User Access Change

Job Mix Formula Gravity Consensus User Access Change

Bulletin 15 Changes

Evaluation Notification Error - Bulletin 15

eCAMMS – Release 48 (July 2025)

Product Evaluation Changes

- New Product Evaluation Module: Original and edited posting date for comments
- New Product Evaluation Collaboration: Update location of Add New Comment & Refresh buttons....
- New Product Evaluation Certification tab: Text fields updated to dropdown fields.....
- New Product Evaluation Official Use Only section: Add Secondary Technical Area field
- New Product Evaluation Search: Add ability to Save/Edit/Delete search criteria for future use.....

eCAMMS – Release 49 (September 2025)

- Product Evaluation Changes**
- New Product Evaluation: Set to “Closed Abandoned” after inactivity
- New Product Evaluation Determination Report Email: Update content & formatting
- New Product Evaluation Executive Notes: Update Timeline fields’ character limit
- New Product Evaluation Search: Add ability to search evaluations with “Unassigned” Evaluation Type....
- New Product Evaluation Collaboration: Revise deleted Technical Review Comment text
- New Product Evaluation Collaboration Remarks: False comment removal

eCAMMS – Release 50 (November 2025)

Product Evaluation Changes

New Product Evaluation: Prevent multiple successive submission of New Product Application.

New Product Evaluation: Collaboration editing across multiple browser tab/windows.....

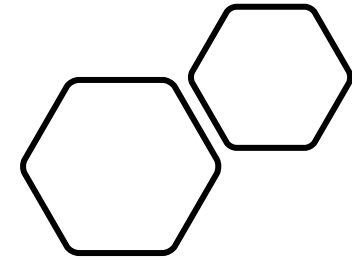
New Product Evaluation: Collaboration area “Applicant Only” comment updates

New Product Evaluation: Closed Abandoned Report

eCAMMS – Upcoming Release 51 (March 2026)

- **Sample Advanced Search (internal users only)**
 - Ability to use nested And/Or functionality for Party criteria
- **Amended Report Notifications**
 - Notify case coordinate if a finalized sample has been amended
- **Electronic State Book - Asphalt Quality Control Testing**
 - Display unrounded values for average and standard deviation to facilitate hand calculations of PWL
- **Asphalt JMFs**
 - Convert Hamburg creep slope to numeric value
 - Convert Hamburg stripping slope to numeric value
- **Concrete JMFs**
 - Correct Units of Measure for Rapid Chloride Permeability on printed JMFs
- **Electronic State Book – Aggregate Shipment Entry and e-Certs**
 - Fix shipment entries to allow agents to create CS-4171s

I	L	E	P	E	J	O	Y	C	P	C	J	C
S	D	P	I	P	N	E	R	S	B	A	N	O
J	Y	D	H	R	M	T	V	A	U	S	Z	L
H	T	S	S	I	T	I	R	F	B	P	S	L
A	I	V	R	X	A	C	S	E	Z	H	Q	A
P	L	X	E	S	N	K	B	X	A	A	X	B
P	A	T	N	E	C	E	R	T	S	L	P	O
Y	U	S	T	W	X	T	Y	E	Z	T	B	R
U	Q	X	R	N	E	I	S	G	K	P	R	A
G	R	Y	A	D	K	N	J	E	C	M	S	T
P	D	C	P	Z	N	G	D	A	F	I	Z	I
A	P	E	N	N	D	O	T	U	U	V	A	O
E	C	A	M	M	S	C	M	W	N	C	P	N



eCAMMS eCertifications (CS-4171s)

April 2025:

- Added ability to create aggregate and concrete eCerts in eCAMMS
- Aggregate certs were limited to products tested by LTS and listed in Bulletin 14

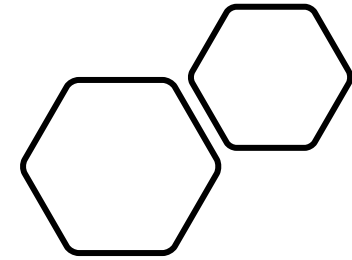
Updates:

- LTS and Districts added locally-approved aggregates to Bulletin 14, enabling eCAMMS eCert creation

Coming Soon:

- **Aggregate Shipment Entry and e-Certs**
 - Fix shipment entries to allow agents to create CS-4171s in eCAMMS

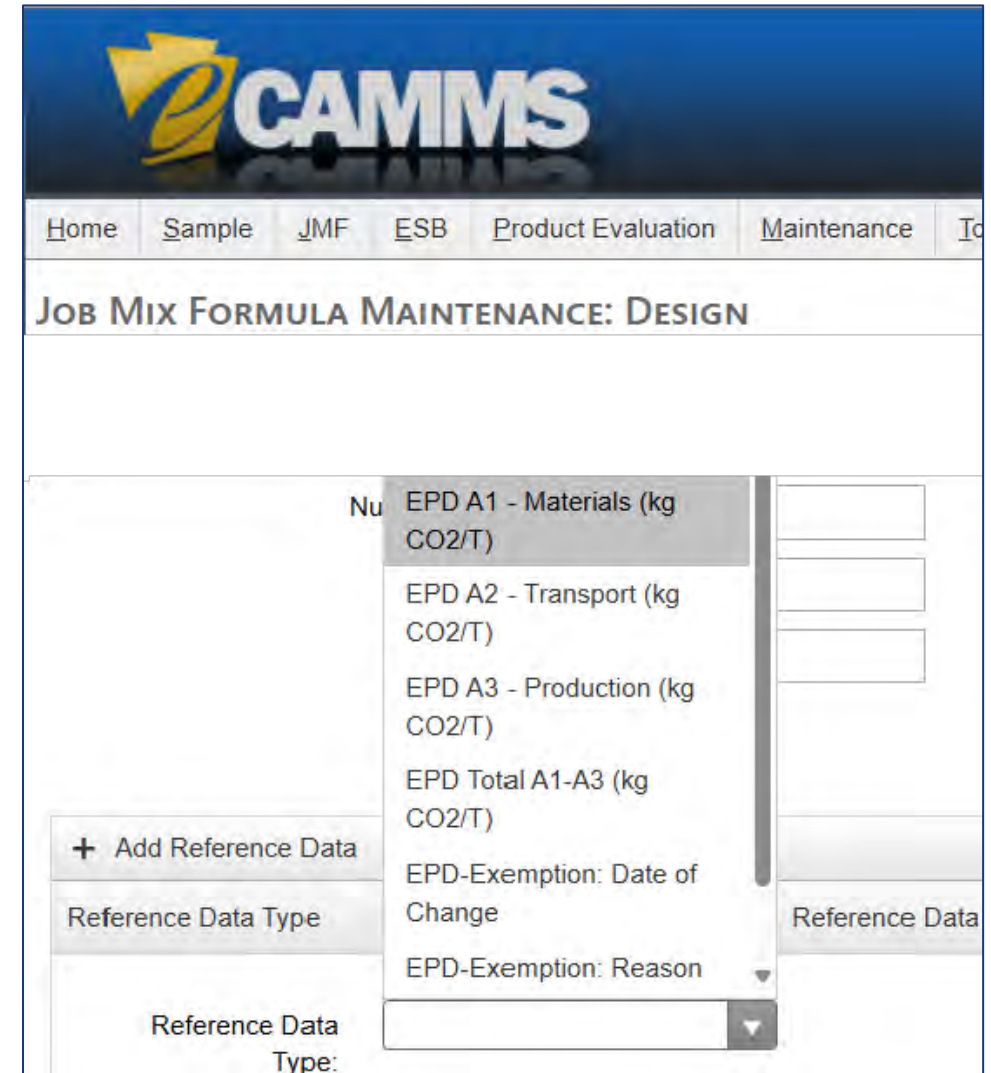
I	L	E	P	E	J	O	Y	C	P	C	J	C
S	D	P	I	P	N	E	R	S	B	A	N	O
J	Y	D	H	R	M	T	V	A	U	S	Z	L
H	T	S	S	I	T	I	R	F	B	P	S	L
A	I	V	R	X	A	C	S	E	Z	H	Q	A
P	L	X	E	S	N	K	B	X	A	A	X	B
P	A	T	N	E	C	E	R	T	S	L	P	O
Y	U	S	T	W	X	T	Y	E	Z	T	B	R
U	Q	X	R	N	E	I	S	G	K	P	R	A
G	R	Y	A	D	K	N	J	E	C	M	S	T
P	D	C	P	Z	N	G	D	A	F	I	Z	I
A	P	E	N	N	D	O	T	U	U	V	A	O
E	C	A	M	M	S	C	M	W	N	C	P	N



EPDs Requirements 2026

- For all 2026 asphalt JMF submissions, there is a requirement for EPD data entry
- Data entry is accomplished using the Add Reference Data button at the bottom of the JMF Design page

No Exemption	Exemption
EPD A1 – Materials (kg CO2/T)	EPD-Exemption: Date of Change
EPD A2 – Transport (kg CO2/T)	EPD-Exemption: Reason
EPD A3 – Production (kg CO2/T)	
EPD Total A1-A3 (kg CO2/T)	



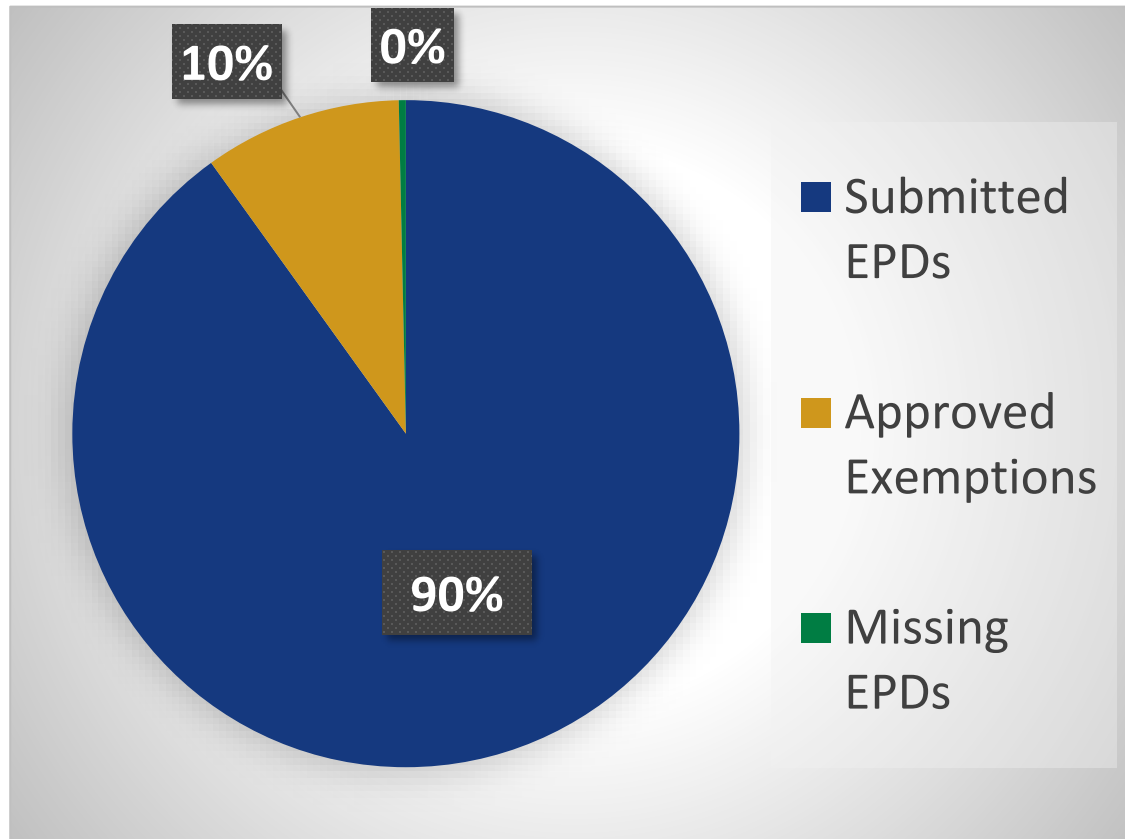
EPDs Requirements 2026

TABLE 4. LIFE CYCLE IMPACT INDICATORS

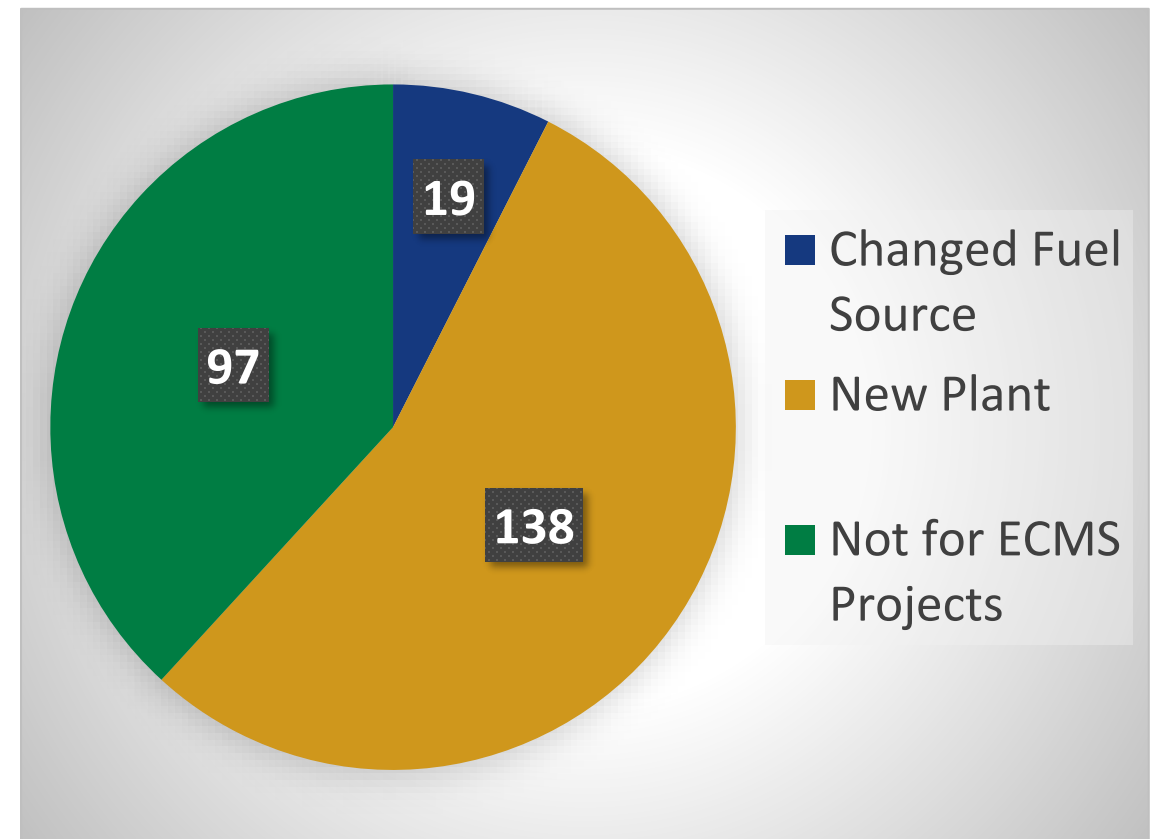
ACRONYM	INDICATOR	UNIT	QUANTITY PER METRIC TONNE ASPHALT MIXTURE (PER SHORT TON ASPHALT MIXTURE)			
			MATERIALS (A1)	TRANSPORT (A2)	PRODUCTION (A3)	TOTAL (A1-A3)
GWP-100	Global warming potential, incl. biogenic CO2	kg CO2 Equiv.	19.91 (18.07)	1.90 (1.72)	33.99 (30.83)	55.80 (50.62)
ODP	Ozone depletion potential	kg CFC-11 Equiv.	1.45e-08 (1.32e-08)	1.14e-08 (1.04e-08)	4.89e-08 (4.43e-08)	7.48e-08 (6.79e-08)
EP	Eutrophication potential	kg N Equiv.	5.34e-03 (4.85e-03)	5.65e-04 (5.12e-04)	3.66e-03 (3.32e-03)	9.56e-03 (8.68e-03)
AP	Acidification potential	kg SO2 Equiv.	5.90e-02 (5.35e-02)	9.66e-03 (8.76e-03)	1.38e-01 (1.25e-01)	2.07e-01 (1.88e-01)
POCP	Photochemical ozone creation potential	kg O3 Equiv.	1.25 (1.13)	0.31 (0.28)	1.97 (1.78)	3.52 (3.20)

EPDs – 2025 Asphalt JMFs By The Numbers

2,651 Approved JMFs



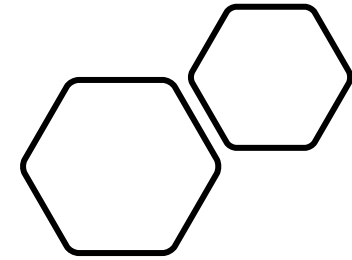
Breakdown of 254 Exemption Reasons



EPDs to Date – 2026 Asphalt JMFs By The Numbers

	With EPD Data	New Plant / New Fuel Source	Not for ECMS Work	Missing EPD Data	Total
Approved JMFs	1012	0	11	0	1023
JMFs in District Workflow to review					376
JMFs in Draft status in Producer's workflow					402
Total Submitted JMFs					1023 + 376 = <u>1,399</u>
Grand Total Started/In Process/Completed					1023 + 376 + 402 = <u>1,801</u>

I	L	E	P	E	J	O	Y	C	P	C	J	C
S	D	P	I	P	N	E	R	S	B	A	N	O
J	Y	D	H	R	M	T	V	A	U	S	Z	L
H	T	S	S	I	T	I	R	F	B	P	S	L
A	I	V	R	X	A	C	S	E	Z	H	Q	A
P	L	X	E	S	N	K	B	X	A	A	X	B
P	A	T	N	E	C	E	R	T	S	L	P	O
Y	U	S	T	W	X	T	Y	E	Z	T	B	R
U	Q	X	R	N	E	I	S	G	K	P	R	A
G	R	Y	A	D	K	N	J	E	C	M	S	T
P	D	C	P	Z	N	G	D	A	F	I	Z	I
A	P	E	N	N	D	O	T	U	U	V	A	O
E	C	A	M	M	S	C	M	W	N	C	P	N



ECMS – Asphalt Ride Quality

TABLE A Payment Schedule for Ride Quality Incentive	
SCHEDULE A	
For Expressway Work Using Three Operations	
MRI inches/mile/lot	Amount
≤ 35.0	\$600
> 35.0 to ≤ 65.0	\$1300 – (20 x MRI)
65.0 to ≤ 70.0 *	\$0
> 70.0	Corrective action required
SCHEDULE B	
For Expressway Work Using Two Operations and Non-Expressway Work Using Two or More Operations	
MRI inches/mile/lot	Amount
≤ 45.0	\$600
> 45.0 to ≤ 75.0	\$1500 – (20 x MRI)
> 75.0 to ≤ 90.0 *	\$0
> 90.0	Corrective action required
* Maximum acceptable MRI	

- Upcoming release to address new Ride Quality specification calculation (Table A)
- Update to be published in Pub 408, Version 2026, Change 1
- Standard Special Provision added to projects let under Pub 408, version 2026, Initial Edition

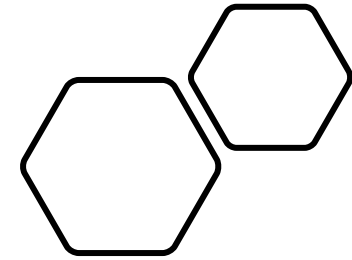
ECMS – Concrete Ride Quality

TABLE A Payment Schedule for Ride Quality Incentive	
Type 1 Lots	
MRI inches/mile/lot	Amount
≤ 35.0	\$1,500
> 35.0 to ≤ 65.0	$\$3,250 - (50 \times \text{MRI})$
> 65.0 to ≤ 70.0*	\$0
> 70.0	Corrective Action Required
* Maximum acceptable MRI	

Type 2 Lots	
MRI inches/mile/lot	Amount
≤ 45.0	\$1,500
> 45.0 to ≤ 70.0	$\$3,975 - (55 \times \text{MRI})$
> 70.0 to ≤ 90.0*	\$0
> 90.0	Corrective Action Required
* Maximum acceptable MRI	

- Upcoming release to address new Ride Quality specification calculation (Table A)
- Update to be published in Pub 408, Version 2026, Change 1
- Standard Special Provision added to projects let under Pub 408, version 2026, Initial Edition

I	L	E	P	E	J	O	Y	C	P	C	J	C
S	D	P	I	P	N	E	R	S	B	A	N	O
J	Y	D	H	R	M	T	V	A	U	S	Z	L
H	T	S	S	I	T	I	R	F	B	P	S	L
A	I	V	R	X	A	C	S	E	Z	H	Q	A
P	L	X	E	S	N	K	B	X	A	A	X	B
P	A	T	N	E	C	E	R	T	S	L	P	O
Y	U	S	T	W	X	T	Y	E	Z	T	B	R
U	Q	X	R	N	E	I	S	G	K	P	R	A
G	R	Y	A	D	K	N	J	E	C	M	S	T
P	D	C	P	Z	N	G	D	A	F	I	Z	I
A	P	E	N	N	D	O	T	U	U	V	A	O
E	C	A	M	M	S	C	M	W	N	C	P	N



PennDOT eTicketing: Asphalt

- **Incidental for all projects**
- **No change in requirements at this time**



PennDOT eTicketing: Aggregate and Concrete

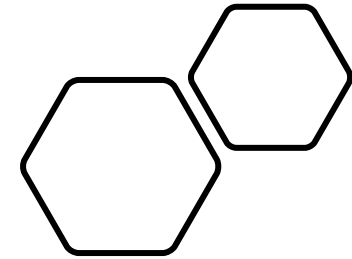
- Remains in pilot status
- Continue to monitor progress



PennDOT eTicketing: Future Direction



I	L	E	P	E	J	O	Y	C	P	C	J	C
S	D	P	I	P	N	E	R	S	B	A	N	O
J	Y	D	H	R	M	T	V	A	U	S	Z	L
H	T	S	S	I	T	I	R	F	B	P	S	L
A	I	V	R	X	A	C	S	E	Z	H	Q	A
P	L	X	E	S	N	K	B	X	A	A	X	B
P	A	T	N	E	C	E	R	T	S	L	P	O
Y	U	S	T	W	X	T	Y	E	Z	T	B	R
U	Q	X	R	N	E	I	S	G	K	P	R	A
G	R	Y	A	D	K	N	J	E	C	M	S	T
P	D	C	P	Z	N	G	D	A	F	I	Z	I
A	P	E	N	N	D	O	T	U	U	V	A	O
E	C	A	M	M	S	C	M	W	N	C	P	N



PennDOT eTicketing, eCAMMS and eCertification



Thank You!

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eCAMMSSupport@pa.gov

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