

# Road School 2012

## DEVELOPMENT OF THE INTERSTATE HIGHWAYS CONGESTION POLICY



# INTERSTATE HIGHWAYS CONGESTION POLICY

## Objectives

- Discuss the history of the policy
- Explain the structure of the new policy
- Overview of the various sections of the policy



## History

- **Development began in June of 2001.**
- **Two policies were created:**
  - ❖ **First policy**
    - **Effective for the January 21, 2004 letting**
    - **Applied to all individuals, except INDOT personnel**
  - ❖ **Second policy**
    - **Effective January 27, 2004**
    - **Applied to all INDOT personnel**



# INTERSTATE HIGHWAYS CONGESTION POLICY

## History

### Interstate Lane Closure Policy

- A revised policy was developed in 2010
  - ❖ Combined previous policies
  - ❖ Eliminated program specific references
  - ❖ Emergency Repair – After Action Report
- Effective dates:
  - ❖ March 17, 2010 for INDOT personnel and Permit seekers
  - ❖ For contracted projects with a ready for contract date on or after May 15, 2010
  - ❖ Existing waivers were grandfathered



## History

### Interstate Highway Congestion Policy

- Development Began in October 2010
- Final draft now being reviewed
- **Not yet effective!!!!!!**



## Structure of the New Policy

- The policy is divided into a:
  - ❖ Policy Section with seven parts, and
  - ❖ Five Appendices



## Structure of the New Policy

- **Policy Section:**
  - I. **Policy Statement**
  - II. **Purpose**
  - III. **Administration**
  - IV. **Acronyms**
  - V. **Application**
  - VI. **Reporting Requirements**
  - VII. **Policy Approval**



## Structure of the New Policy

- **Appendices:**
  - A. **Emergency and Urgent Closures**
  - B. **Pre-approved Closures**
  - C. **Waivers to the Policy**
  - D. **Rolling Slowdowns**
  - E. **Queue Measurement and Reporting**





## I. Policy Section

- **The policy statement prohibits operations which:**
  - ❖ **Restrict lanes on an Interstate Route**
  - ❖ **Cause congestion on an Interstate Route**
  - ❖ **Except as noted**



# INTERSTATE HIGHWAYS CONGESTION POLICY

## II. Purpose

- Purpose is to comply with 23 CFR 630 Subparts J and K

## III. Administration

- Administered and maintained by INDOT's Traffic Management Division

## IV. ACRONYMS USED

- List of 15 Acronyms used in the policy



## V. APPLICATION OF THE POLICY

- **Contains eight parts which describe:**
  - ❖ **Who must follow the policy**
  - ❖ **When it does and doesn't apply**
  - ❖ **Where it applies**
  - ❖ **How to seek to vary from it**
  - ❖ **What data collection is required**



## VI. Reporting Requirements

- Any closures must be reported
- The report is to include:
  - ❖ Closure information
  - ❖ Contact Information



## VII. Policy Approval

- Replaces all prior policies
- Effective dates



## Appendix A

- **Emergency Repairs**
  - ❖ **Suggested use**
  - ❖ **Reporting requirements**
- **Urgent Repairs**
  - ❖ **Suggested use**
  - ❖ **Queue development**
  - ❖ **Reporting requirements**
  - ❖ **Prevention of future urgent repairs**

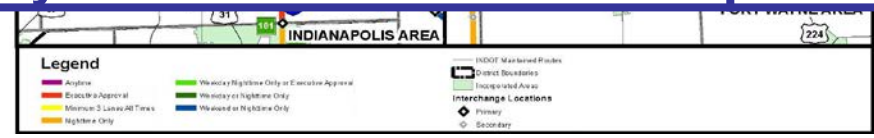


# INTERSTATE HIGHWAYS CONGESTION POLICY



## I-69

Section	Start Exit	End Exit	2009 Schedule	Length (mi)
I 465 to 116 <sup>th</sup> St	0	5	Nighttime Only	5
116 <sup>th</sup> St to SR 38	5	19	Executive Approval	14
SR 38 to SR 18	19	64	Nighttime Only	45
SR 18 to US 224	64	86	Weekday or Nighttime Only	22
US 224 to US 24	86	102	Nighttime Only	16
US 24 to SR 1	102	116	Anytime	14
SR 1 to SR4	116	140	Nighttime Only	24
SR 4 to the Michigan State Line	140	158	Anytime	18



## Appendix C

### ■ Waivers

- ❖ Approval required prior to work
- ❖ Who may approve
- ❖ Who is responsible to seek a waiver
- ❖ What requires a waiver
- ❖ Work outside pre-approved schedules
- ❖ Process
- ❖ Checklist
- ❖ Templates
- ❖ Queue Analysis





# INTERSTATE HIGHWAYS CONGESTION POLICY

## Appendix C

**Table C-1: Suggested QUEWZ98 Model Parameters from Highway Capacity Manual, Chapter 23, 2000 ed.**

Parameter	Free Flow Speed (mph)				
	55	60	65	70	75
Speed at D/E Breakpoint (mph)	55	58	60	62	62
Speed at Capacity (mph)	50	51	52	53	53
Volume at D/E Breakpoint (pce/hr)	1910	2020	2090	2150	2170
Volume at Capacity (pce/hr)	2250	2300	2350	2400	2400



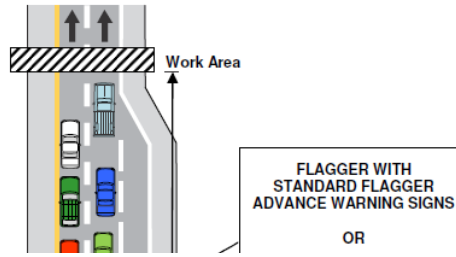
# INTERSTATE HIGHWAYS CONGESTION POLICY

## Appendix C

### Table C-2: Suggested Working Hour Capacities

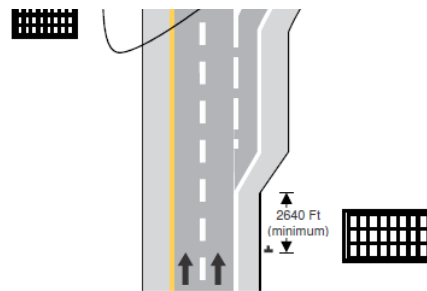
Work Zone Type	Lanes Maintained	Effective Lane Width		
		> or = 11'	10' to 10.5'	9' to 9.5'
Short Term	1 or more	1600	1450	1375
Long Term, traffic not crossed over	1	1750	1590	1510
Long Term, traffic crossed over	1	1550	1410	1330
Long Term, either traffic crossed or not crossed over	2 or more	1750	1590	1510





- **Rolling Slowdowns**
  - ❖ Usage
  - ❖ Reporting
  - ❖ Procedure
  - ❖ Distance Table
  - ❖ Diagram

20 MPH	12.7 Miles
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10.4 Miles	10.2 Miles
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## INDOT WORK ZONE QUEUE & DELAY REPORT FORM

Contract No: \_\_\_\_\_  
 Route & Project Limits/Location: \_\_\_\_\_  
 County: \_\_\_\_\_ District: \_\_\_\_\_  
 Occasion: \_\_\_\_\_  
 (see note 1)

Date: \_\_\_/\_\_\_/\_\_\_

**Measurement 1:**

Direction of Travel: \_\_\_\_\_ Time: \_\_\_:\_\_\_ am/pm  
 Location of Queue (see note 2): \_\_\_\_\_  
 Queue Length: \_\_\_\_\_ miles Delay: \_\_\_\_\_ minutes

**Measurement 2:**

Direction of Travel: \_\_\_\_\_ Time: \_\_\_:\_\_\_ am/pm  
 Location of Queue (see note 2): \_\_\_\_\_  
 Queue Length: \_\_\_\_\_ miles Delay: \_\_\_\_\_ minutes

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Signed, \_\_\_\_\_

Project Engineer/Supervisor \_\_\_\_\_

Report Date \_\_\_\_\_

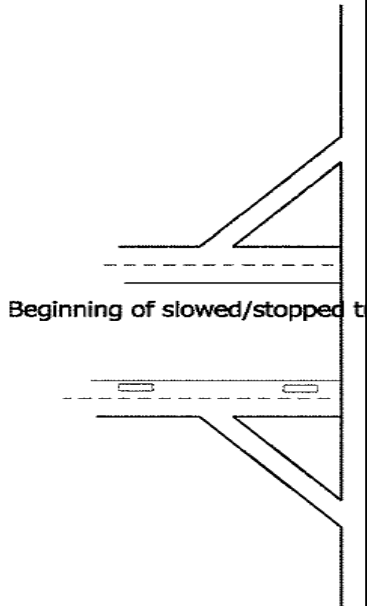
**NOTES:**

1. Occasion refers to the event (e.g. start of construction, phase change, location change) that is prompting the measurements.
2. Location of Queue refers to the location that the queue begins, for instance "the left lane merge taper for the crossover at station 123+50"

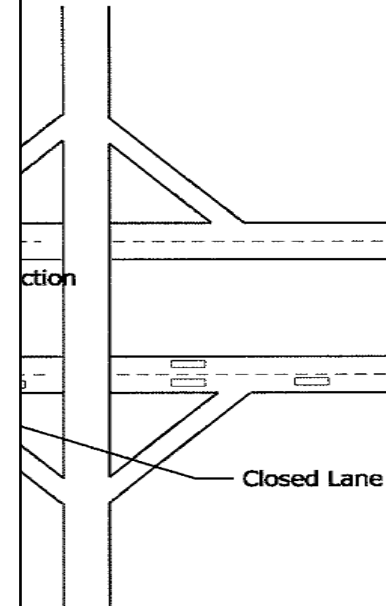
cc: District Traffic Engineer  
 Work Zone Safety Section, Indianapolis TMC (fax to 317-898-0897)  
 Project File

Form Date 02/2012

## Queue



## g



# INTERSTATE HIGHWAYS CONGESTION POLICY

Questions?????



**Pat McCarty**

**317-899-8626**

**[jmccarty@indot.in.gov](mailto:jmccarty@indot.in.gov)**

