Portable Changeable Message Sign (PCMS) Guide – Louisiana



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- Purpose To present basic regulations and guidelines for the use of Portable Changeable Message Signs (PCMS) on highways in Louisiana
- Where appropriate, standards or requirements of the MUTCD 2009 Edition are quoted verbatim with the reference included
- Not intended to be a standard itself, but to provide practical information to users of PCMS

PCMS Standards and Guidance

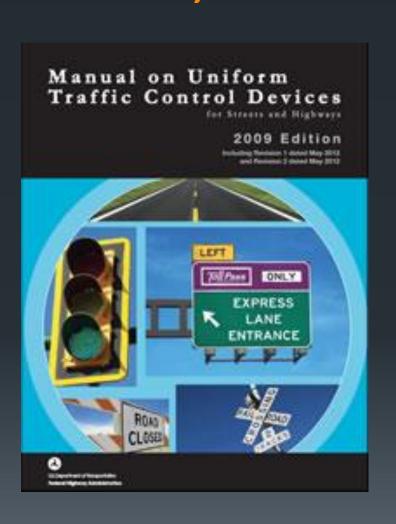
- Manual on Uniform Traffic Control Devices (MUTCD) 2009 Edition
- Portable Changeable
 Message Sign Handbook,
 FHWA
- LADOTD Traffic Control Standard Plan TTC-00(A)



What is a PCMS?

- PCMS is a temporary traffic control (TTC) device that is capable of displaying a variety of messages to inform motorists of unusual driving conditions.
- This capability is achieved through elements on the face of the sign that can be activated to form letters or symbols.
- Differs from CMS since the message is limited by the size of the sign (usually three lines with eight characters per line)

PCMS is a Traffic Control Device! Therefore, it must:



- A. Fulfill a need
- B. Command attention
- C. Convey a clear, simple meaning
- D. Command respect from road users
- E. Give adequate time for proper response

Advantages of PCMS

- Housed on a trailer or truck bed and can be deployed quickly
- Meets temporary requirements frequently found in work zones, incident areas, or for special events
- Captures motorists' attention.
- Relays information that is difficult to accomplish with static signing.
- Equipped with remote communications, messages can be programmed from a Traffic Management Center (TMC)

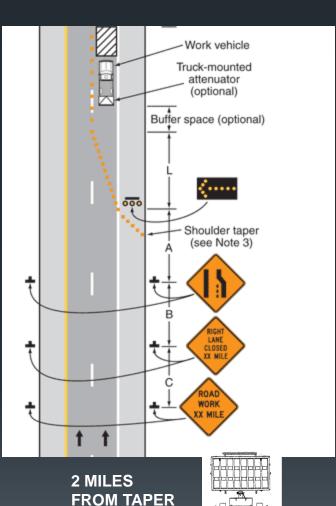
PCMS can be used for:

- Construction or maintenance (e.g., work zone).
- Incident management.
- Special event.
- Notification of future construction or event.



Louisiana Traffic Control Standard Plan TTC-00(A) Provisions

- PCMS shall be used on all Interstate Highways and other roadways with an ADT greater than 20,000 vehicles
- PCMS are paid per each under Item NS-713-00001
- Should be placed on the right side of the road a minimum of 2 miles in advance of the taper for lane closures and lane shifts
- If vehicles are queuing past the two mile PCMS an additional PCMS should be placed at five miles or the back of queue, whichever is greater

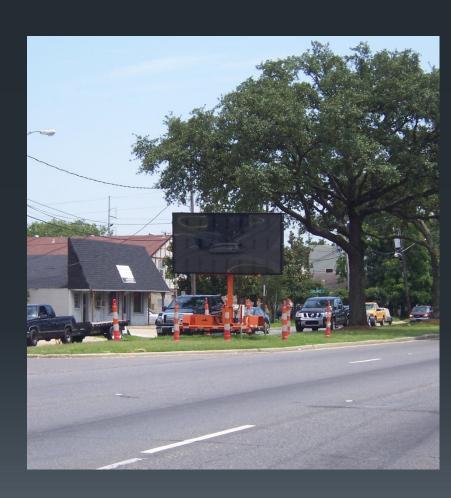


5 MILES **EROM TAPER** or BACK OF QUEUE



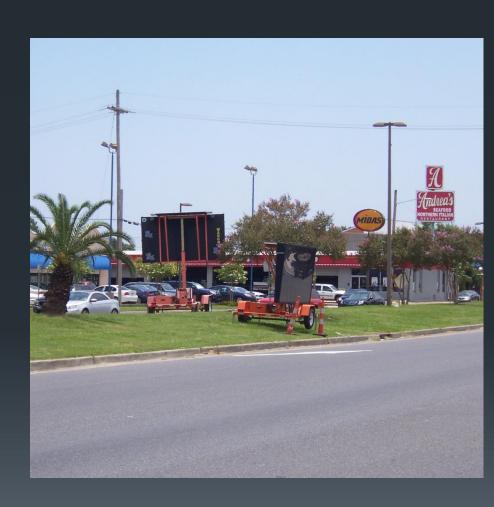
Louisiana Traffic Control Standard Plan TTC-00(A) Provisions

- PCMS messages shall conform to the LADOTD PCMS APPROVED MESSAGE POLICY (EDSM VI.2.1.10) or shall be approved by the District Traffic Operations Engineer!
- Messages shall be no more than three lines and two screens (phases)
- Place as far from the travel lane as possible and shield with guardrail or barriers



Louisiana Traffic Control Standard Plan TTC-00(A) Provisions

- If shielding is not possible, PCMS shall be delineated with drums
- If placed on the shoulder, a shoulder closure shall be implemented
- When not displaying an appropriate message pertaining to ongoing work, shield the PCMS with guardrail or barriers, or remove from the clear zone



PCMS Messages – Design

- The message should be as brief as possible and should contain three thoughts (with each thought preferably shown on its own line) that convey:
 - The problem or situation that the road user will encounter ahead,
 - The location of or distance to the problem or situation, and
 - The recommended driver action.



PCMS Messages – Design



- If more than two phases are needed to display a message, additional portable changeable message signs should be used
- When multiple portable changeable message signs are needed, they should be placed on the same side of the roadway and separated from each other by at least 1,000 feet on freeways, 500 feet on other types of highways

- Advance Notice of Scheduled Work
- Notice of Current / Ongoing Work
- Incident Notices
- Weather / Environmental / Emergency / Special Events
- Public Service Messages

Advance Notice of Scheduled Work



Condition	Sample Message	Sample Message	Notes	Alternate Message	Alternate Message
	Screen 1	Screen 2		Screen 1	Screen 2
Pending Road Work	LA XXXX	BEGIN	Normally no more than 6 days in advance	2 LANES	8 PM SUN
	LANE	SUNDAY	May be displayed on 2 mile PCMS	TO BE	ТО
	CLOSURES	NIGHT		CLOSED	6 AM MON
Pending Road Closure	LA XXXX	9/7/11	Normally 7 Days in advance	LA XXXX	MON 9/7
	то ве	ТО	See TTC-16	TO BE	ТО
	CLOSED	9/13/11		CLOSED	SUN 9/13
Pending Road Closure	I-10 WEST	SUNDAY	Normally 6 days in advance	I -10 W	SUNDAY
	TO BE	9:00 AM -		FULL	9:00 AM-
	CLOSED	4:00 PM		CLOSURE	4:00 PM
Pending Bridge	BRIDGE	9/7/11	Normally 7 days in advance		
Closure	то ве	ТО	See TTC-16		
	CLOSED	9/13/11			
Pending Bridge	US 11	9/7/11	Normally 7 days in advance		
Closure	BRIDGE	ТО	If significant detour use static sign up to 30 Days		
	CLOSURE	9/13/11			
Intermittent Lane Closures	LA XXXX	TONIGHT	Must be updated (at least weekly)		
	LANE	8PM -			
	CLOSURES	5 AM			
	15 MIN	SUNDAY			
Intermittent Road Closures	BRIDGE	6:00 AM -	Up to 6 days in advance		
	CLOSURES	2:00 PM			

Advance Notice of Scheduled Work

- Individual screens (phases) must make sense on their own
- Use "CLOSURE" or "CLOSURES" versus "CLOSED"
- Minimize blank periods between phases
- Driver must see at least one full cycle of the message, preferably two







Notice of Current /Ongoing Work



Condition	Sample Message	Sample Message	Notes	Alternate Message	Alternate Message
	Screen 1	Screen 2		Screen 1	Screen 2
Current Road Work	RT LANE	SLOW		LA XXXX	
	CLOSED	TRAFFIC	May be displayed on 2 and 5 mile PCMS	LANE	
	AHEAD			CLOSED	
Current Road Closure	ROAD	DETOUR		LA XXXX	STAY ON
	CLOSED	US 61	See TTC-16	CLOSED	US 61
	AHEAD	SOUTH		AHEAD	SOUTH
	ROAD	UNTIL		LA XXXX	LOCAL
Current Road Closure	CLOSED	MONDAY		CLOSED	TRAFFIC
	AHEAD	6:00 AM		AHEAD	ONLY
	BRIDGE	DETOUR		DULARGE	12
Current Bridge Closure	CLOSED	I-10	See TTC-16	BRIDGE	MILES
	AHEAD	EAST		CLOSED	AHEAD
	US 11	ALT	Must be monitored		
Intermittent Bridge Closure	BRIDGE	ROUTE	Normal max closure 15 minutes		
	DELAYS	I-10 E			
	I - 10	ALL			
Current Road Closure	CLOSED	TRAFFIC			
	AHEAD	EXIT			

Incident Notices



Condition	Sample Message	Sample Message	Notes	Alternate Message	Alternate Message
	Screen 1	Screen 2		Screen 1	Screen 2
	RHT LANE			LA XXXX	
Current Incident	CLOSED		May be displayed on 2 and 5 mile PCMS	LANE	
	AHEAD			CLOSED	
	ROAD	DETOUR		LA XXXX	STAY ON
Incident with Road Closure	CLOSED	US 61	See TTC-16	CLOSED	US 61
	AHEAD	SOUTH		AHEAD	SOUTH
	ROAD	ALL		LA XXXX	LOCAL
Current Road Closure	CLOSED	TRAFFIC		CLOSED	TRAFFIC
	AHEAD	EXIT		AHEAD	ONLY
	BRIDGE	DETOUR		DULARGE	12
Current Bridge Closure	CLOSED	I-10	See TTC-16	BRIDGE	MILES
	AHEAD	EAST		CLOSED	AHEAD
	US 11	ALT	Must be monitored		
Incident on Bridge	BRIDGE	ROUTE	Normal max closure 15 minutes		
	DELAYS	I-10 E			

Weather / Environmental / Emergency / Special Events



Condition	Sample Message	Sample Message	Notes	Alternate Message	Alternate Message
	Screen 1	Screen 2		Screen 1	Screen 2
	FOG	DRIVE			
FOG WARNING	AREA NXT	WITH	May be displayed on 2 and 5 mile PCMS		
	12 MILES	CAUTION			
	FOG	REDUCE		FOG	LIGHTS
FOG ACTIVE	AREA	SPEED	See TTC-16	AREA	ON - LOW
					BEAM
	PGA TOUR	NEXT		SHUTTLE	TURN
Special Event Parking	EVENT	RIGHT		PARKING	RIGHT
	PARKING	→			500 FT
	HIGHLAND	W-BND		POYDRAS	SUNDAY
Special Event Traffic	ROAD	1 – 3 PM		RAMP	11 AM –
	ONE WAY	SAT		CLOSURE	10 PM

Public ServiceMessages

Must be part of an approved areawide effort in conjunction with other State agencies



Abbreviations

Table 1A-1. Acceptable Abbreviations					
Word Message	Standard Abbreviation				
Afternoon / Evening	PM				
Alternate	ALT				
AM Radio	AM				
Avenue	AVE, AV				
Bicycle	BIKE				
Boulevard	BLVD*				
Bridge	(See <u>Table 1A-2</u>)				
CB Radio	СВ				
Center (as part of a place name)	CTR				
Circle	CIR*				
Civil Defense	CD				
Compressed Natural Gas	CNG				
Court	CT*				

Table 1A-3. Unacceptable Abbreviations					
Abbreviation	Intended Word	Common Misinterpretat ions			
ACC	Accident	Access (Road)			
CLRS	Clears	Colors			
DLY	Delay	Daily			
FDR	Feeder	Federal			
L	Left	Lane (Merge)			
LT	Light (Traffic)	Left			
PARK	Parking	Park			
POLL	Pollution (Index)	Poll			
RED	Reduce	Red			
STAD	Stadium	Standard			
WRNG	Warning	Wrong			

Abbreviations

Table 1A-2. Abbreviations that Shall be Used (only on Portal	ble Changeable	Message Signs
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Word Message	Standard Abbreviation	Prompt Word That Should Precede the Abbreviation	Prompt Word That Should Follow the Abbreviation
Access	ACCS	_	Road
Ahead	AHD	Fog	_
Blocked	BLKD	Lane	_
Bridge	BR*	[Name]	_
Cannot	CANT	_	_
Center	CNTR	_	Lane
Chemical	СНЕМ	_	Spill
Condition	COND	Traffic	_
Congested	CONG	Traffic	_
Construction	CONST	_	Ahead
Crossing	XING	_	_
Do Not	DONT	_	_
Downtown	DWNTN	_	Traffic
Eastbound	E-BND	_	_

PCMS to remember

- Signs are the primary channel of communication to the motorist.
- PCMS credibility is crucial.
- The PCMS should communicate what action motorists need to take and when this action should occur.
- Unnecessary information should be avoided.
- PCMS should be left blank if there is nothing to report and moved if no longer needed.







Questions?

