Check Box Train Orders

Dave Clemens Jim Providenza



Dave Clemens (advocate)
Jim Providenza (not so much!)

What ever you can do, the Ops Clock will do much faster.

Need five minutes to write and copy? You just burned up 20 to 30 minutes (or more) out on the railroad

Recommendations to Otis McGee's SP Black Butte Subdn dispatchers.

Less is More is the best policy for Train Orders. Issue as few Train Orders as absolutely needed. Issue more, but very simple Train Orders where necessary. Although there are MANY forms of Train Orders, focus on just FOUR – Run or Work Extra, and Meet at or Right-Over.

- 1. Run Extra: ENG 1234 RUN EXTRA ALPHA TO MARY
- 2. Works Extra: **ENG 1234 WORKS EXTRA FROM 901AM UNTIL 1230PM BETWEEN ALPHA AND BAKER**
- 3. Setting a Meeting point: **NO 20 MEET EXTRA 5678 WEST AT CHARLIE**
- 4. Right Over: **EXTRA 5678 WEST HAS RIGHT OVER NO 20 ALPHA TO CHARLIE**

I used to write ten or fifteen TO's per session at Otis's.

Now I write six or seven by keeping the trains spread out. Yet the railroad is more fluid from beginning to end, and traffic (and operators) keep moving - NOT standing around.

Some solutions

On Jim's Santa Cruz Northern we love to throw a match into the can of gasoline from time to time.

Holiday weekend traffic balloons with more Suntan's running to the beach. So how do you keep up?



Some solutions

Keeping the Santa Cruz Northern fluid Memorial Day weekend

Pre-print lots of TO's. Just like when the DS told his Ops down the line, "Copy a bunch."

Pre-Printed TOs

	Santa	a Cruz I	Northern	RR		
FORM						FORM
19						19
TRAIN O	RDER No	11	MAY	23	, 19_	71
то С. &	E. <u>v</u>	VESTWA	ARD TRA	AINS		
At: _	MAC S'	INITIALS	X	TIME	Opr.; _	M
TO C	&E: TR	AINS	ORIGIN	IATIN	1G -	
	FAI	LLON				
	EAS	rward	TRAIN	S -		
	SAN	ra CR	UZ			

TRAIN NO 34 LEAVING SANTA CRUZ SATURDAY MAY 24 IS ANNULLED SANTA CRUZ TO MAC ST

Made: COMPLETE_{Time} 405 PM Opr. DRC_{CTD}

Each employee addressed must have a copy of this order.

Santa Cruz Northern RR	2			
form 19	FORM 19			
TRAIN ORDER No. 1 MAY 24	1 , 19 71			
To C. & E. WESTWARD TRAIL	NS			
At: MAC ST X	Opr.;M			
TO C&E: ORIGINATING TRA	AINS -			
FALLON				
ENG WP 803A - SA	NTA CRUZ			
ENG 803A RUN EXTRA LEAVING SANTA CRUZ AS FOLLOWS WITH RIGHT OVER ALL TRAINS				
LEAVE SANTA CRUZ 501	AM			
FALLON 540) AM			
DOUGHERTYS 555	5 AM			
E RICA 610) AM			
ARRIVE MAC ST 620) AM			

Each employee addressed must have a copy of this order.

Opr. DRC_{CTD}

Made COMPLETE Time 405AM

Other solutions

Most recently, Jim had an issue of track work going on at SP Xing.

Do we deal with it as Train Orders?

Nope, having a prototype DS on call encouraged us to create a Division Bulletin.

Some solutions

Santa Cruz Northern RR

DIVISION BULLETIN NO. 207 NOVEMBER 17, 1971 12:07 P.M.

ALL SCN TRAINS ORIGINATING

AUTOMATIC INTERLOCKING SP XING MP 34.2 TEMPORARILY REMOVED FROM SERVICE. ALL MOVEMENTS AT SP XING SHALL BE GOVERNED BY SP FLAGMAN. ALL SCN TRAINS MUST APPROACH SP XING PREPARED TO STOP UNLESS PROCEED SIGNAL FROM FLAGMAN IS RECEIVED.

YELLOW FLAGS DISPLAYED EASTWARD AT MP 34.5 AND WESTWARD AT MP 33.9. ALL TRAIN MOVEMENTS BETWEEN MP 33.9 AND MP 34.5 SHALL BE MADE AT RESTRICTED SPEED PREPARED TO STOP SHORT OF MEN OR EQUIPMENT.

ON PROCEED SIGNAL FROM SP FLAGMAN AT SP XING, TRAINS SHALL SOUND BELL AND WHISTLE CONTINUOSLY BETWEEN MP 34.0 AND MP 34.4 UNLESS OTHERWISE PROVIDED.

SUPERVISORY PERSONNEL SHALL ENSURE ALL TRAIN SERVICE, MAINTENANCE OF WAY, OR OTHER PERSONNEL OPERATING AT, NEAR OR THROUGH SP XING HAS A COPY OF THIS BULLETIN WHEN ON DUTY.

SIGNED,

SUPERINTENDENT

JCP

CHIEF TRAIN DISPATCHER

DRC

But how do you speed up the TO write, copy, repeat process?

Simplify the forms! Here are some prototype solutions.

Issues to consider Some prototype solutions.

-	
Date.	Controlle Oct 22 186 4
011	Contractor No.
Too tele	Cond'r Train No.
No. 7 r	un to Rille peterra
against No	
againer it	
Sig.	yaved.
Operator	i Corouser

Some prototype solutions.

TRAIN ORDER C.	156
To	Conductor of Train No.
at	
Train No. will run to	regardless
rules. The last named train will	not pass the point named until
the other has arrived there. In o by the rules. Neither train is au own time table time.	other respects it will be governed

Issues to consider Some prototype solutions.

	_	FORM-			
647	TELEP	HOME-TR	AIN URDE	R	1
		OROVILLE,	SUSPENDENCE OF THE PROPERTY OF	١.	
Train Order	No	/ Dat	. 8-	3 1	928-7
10 Conduct	or and En	gineman:			
Ungine No	6	Mark	yeru	/5	tation
Engine No.	le		lugine Na	1	
41	- n-1	WHEN			
	agradio bassas ou	arrabinate de marra			
		************		******************	******
	100			Ca	in
omplete st	(Those)	l, Rec'd by	Cenden	(Ma)	-01
, page 1000		TTO	J Disp	stelane	
					-

What finally "tore" it for Dave?

I love having the IMR&N in full swing,

Right up until the clock goes on. And I find myself an hour (fast clock, of course) behind.

Here's Dave's solution

A "Check Box" Train Order.

The DS plays Telegrapher/ Operator doing all the paperwork, although crews could easily "copy and repeat" back if desired.

ORDER No. ENG	Form
ORDER No. ENG	19
ORDER No. ENG	
ORDER No. ENG	ON
ORDER No. 2 [_] ENG	TPA
BETWEEN AND PROTECTING NOT PROTECTING AGAINS TRAINS 3 ALL REGULAR TRAINS DUE M	ii N
BETWEENAND	-
BETWEENAND	
BETWEEN AND PROTECTING NOT PROTECTING AGAINS TRAINS 3 ALL REGULAR TRAINS DUE M	IKA
PROTECTING NOT PROTECTING AGAINS TRAINS	M
TRAINS 3 [_] ALL REGULAR TRAINS DUE AT OR BEFORE HAVE ARRIVED OR LEFT ORDER NO. 5 [_] ORDER NO. ORDER NO. 5 [_] ORDER NO. S ANNULL ORDER NO. FORDER NO. IS ANNULL ORDER NO. ORDER NO. IS ANNULL ORDER NO. Form UNION PACIFIC RAILROAD A CLEARANCE Station To C. and E. ORDER NO. IS ANNULL ORDER NO. Form UNION PACIFIC RAILROAD A CLEARANCE Station To C. and E. Orders No. Orders No. Orders No. No. OK. at M. Dispatcher Do not leave before (Fill in this line only when necessary to comply with Rule 22.	T
AT OR BEFOREM HAVE ARRIVED OR LEFT ORDER No ENG	"
AT OR BEFOREM HAVE ARRIVED OR LEFT ORDER No ENG	
HAVE ARRIVED OR LEFT ORDER No.	_
ORDER No. MAIN TRACK AND MEET	
MAIN TRACK AND MEET	
MAIN TRACK AND MEETAT	
AT ORDER No. ORDER NO. ORDER NO. IS ANNULI ORDER NO. ENG DISPLAY SIGNAL AND RUN NO TO Made::M Each employee addressed must have a copy of this of Form UNION PACIFIC RAILROAD A	
ORDER No. ORDER No. ORDER NO. IS ANNULL ORDER NO. ENGDISPLAY SIGNAL AND RUNNO	-
ORDER NO. IS ANNULL ORDER NO. ENG DISPLAY SIGNAL AND RUN NO TO Made: :	_
ORDER NO. IS ANNULL ORDER NO. ENG DISPLAY SIGNAL AND RUN NO TO Made: :	
Made::MEach employee addressed must have a copy of this of the complex	ED
Made:M Each employee addressed must have a copy of this of the complex of	
AND RUNNO	_
Made::M Each employee addressed must have a copy of this of the complex of the comp	S
## Bach employee addressed must have a copy of this of the complete addressed must have a copy of this of the copy of the	
Each employee addressed must have a copy of this of	
CLEARANCE	Disp
Station Display	order.
	Form
To C. and E	Α
To C. and E	, 19
Train at initial state	
I have(if no orders, insert NO) orders for your train Orders	for each
Orders No. No. No. O.K. at : M Dispatcher Do not leave before : M (Fill in this line only when necessary to comply with Rule 22	
O.K. at : M Dispatcher Do not leave before : M (Fill in this line only when necessary to comply with Rule 22	as follows
Do not leave before : M (Fill in this line only when necessary to comply with Rule 23	
Do not leave before : M (Fill in this line only when necessary to comply with Rule 23	
	21.)
Operator	
Conductor and each Engineer must have a copy and see that there trait designated above, also that the number of orders, and the number	n is correct

Here's One example

Form		Form
19	UNION PACIFIC RAILROAD	19
To C. &	E.: ENG 1388 At: SPOK	
111	SIX. ENG 1388 RUN EXTR SPOKANE TO DISHMAN	₹A
2 <u>K</u> 1	FROM 930 A MUNTIL 1230 P BETWEEN P XING AND DISHMAP PROTECTING XING PROTECTING AGAINST EXTRA TRAINS	M
3 <u>X</u>]	ALL REGULAR TRAINS DUE SPOKAN AT OR BEFORE 901 A M HAVE ARRIVED OR LEFT	IE
4[_]	ORDER No. NOENGMAIN TRACK AND MEETAT	
5 [_]	ORDER No IS ANNULLE	D
6 [_]	ORDER No ENG DISPLAY SIGNALS AND RUN NO TO	
	MPLETE 905A DRC n employee addressed must have a copy of this on	Disp.
Form	UNION PACIFIC RAILROAD	Form
A SP	CLEARANCE OKANE Station AUG 15	A 52
To C. and	I E. ENG 1388 Display (Insert "No" or "Green" for regular Train at initial sta	reach
Orders O.K. at Do not le	(if no orders, insert NO) orders for your train a No. SIX NO. EVENNO. 911 A M DRC Dispatcher ave before : M Fill in this line only when necessary to comply with Rule 221. Operator	s follows:
designated :	and each Engineer must have a copy and see that there train above, also that the number of orders, and the number of prespond with the numbers inserted above.	

Reluctantly (VERY)

Jim has will consider the "concept" of pre-printed forms, because...

The "fill in the blanks" forms match the prototype examples.

Just don't expect an operating session on the SCN to have these scattered around the Agent/Operators' desks.

But, just in case....

Reluctantly (Very)

Jim will consider the "concept" of preprinted forms, just in case....

Santa Cruz Northern RR		Santa Cruz Northern RR			
19 TRAIN ORDER No	19 19	19 TRAIN ORDER No		, 19	
To: C. & E.		то: С. & Е			
At: $X = Opr.; -TI = TI $	MEM	At:STATION	XINITIALS	Opr.;M	
Eng run extra	n	Train	meet	at at	
to		Location			

Made_____Time _____M ____Opr. ____CTD

Made_____Time _____M____Opr.____CT

Each employee addressed must have a copy of this order.

Each employee addressed must have a copy of this order.

Reluctantly (Yes!)

Jim will consider the "concept" of preprinted forms for others, just in case....

Santa Cruz Northern RR	2000		Santa Cruz Northern RR		
To: C. & E.	19 -		, 19	19 -	
At: X Opr.; TIME	M	At:station	X Opr.; TIME	M	
run hours late		ha	as right over		
		fr	om		
		to			

Made_____Time ____M ____Opr.____CTD

Made_____Time _____M ____Opr. ____CTI

Each employee addressed must have a copy of this order.

Each employee addressed must have a copy of this order

Another approach from Byron Henderson.

Timetable and Two (2) Train Orders.

Of the 16 daily train "slots" on the schedule, the owner normally ran only six or seven trains. Train "slots" were annulled in pairs (east & west), with any needed meets established by Train Order.

Another approach from Byron Henderson.

Timetable and Two (2) Train Orders.

- Timetable includes more trains than run in a session with scheduled meets
- "Run Late" and "Meet At" pre-printed orders
- Mark off annulled and arrived trains (Register)

Of the 16 daily train "slots" on the schedule, the owner normally ran only six or seven trains. Train "slots" often were annulled in pairs (east & west), with any needed meets established by Train Order.

Timetable and Two Train Orders forms.

	Order	s for	Train	Engine
Order #	Trai	in _		Order # Train
Run			late	Meet Train
	to _			at
Order #	Trai	in _		Order # Train
Run			late	Meet Train
	to _			at
Order #	Trai	in _		Order # Train
Run			late	Meet Train
	to _			at
The fo	ollowing t	rai	ns are	Order # Train
annul:	led or hav	ze a	rrived	Meet Train
(draw l	ine throu	gh '	Train #)	at
1	2	9	10	
3	4	11	12	Proceed with caution
5	6	13	14	through Yard Limits,
7	8	15	16	prepared to stop

Timetable & 2 Train Orders trainsheet.

Arrived / Annulled

15 16

Di	Dispatcher's record of Train orders issued						
1	Train	run		late	to		
	Train	meet Train	at				
2					to		
	Train	meet Train	at				
3	Train	run		late	to		
	Train	meet Train	at				
4					to		
	Train	meet Train	at				
5					to		
	Train	meet Train	at				
6	Train	run		late	to		
	Train	meet Train	at				
7	Train	run		late	to		
	Train	meet Train	at				
8					to		
	Train	meet Train	at				
9	Train	run		late	to		
	Train	meet Train	at				
10					to		
	Train	meet Train	at				

Another approach from Kevin Leyerle. "Fill in the Blank" approach is similar to Dave's

MISSOURI - KANSAS - TEXAS RAILROAD COMPANY OKLAHOMA, KANSAS AND TEXAS RAILROAD COMPANY CLEARANCE	MISSOURI-KANSAS-TEXAS RAILROAD COMPANY OKLAHOMA, KANSAS AND TEXAS RAILROAD COMPANY 4803-0018
Station19	TRAIN ORDER No
I haveorders for your train: [In blank space show lotal number of orders or, if none, show "No"]	A.[ENGINE RUN EXTRA FROM
	B.[] ENGINERUN EXTRA FROM TO
	C. MEET EXTRA
Operator will list orders downword in numerical order, starting in left column, speed restriction orders first, old date movement orders next and current movement orders last, find column to be filled before using second and third columns.	E. ENGINE WORKS ENTRA BETWEEN AND PROTECTING NOT PROTECTING
OK M Dispr. Opr. Do not leave before M. (Operation fill in this space only when necessary to comply with Rule 91.)	F.



- Pat Flynn:
- "One Legged"
 Dispatching on the
 WP's 4th Sub circa
 1980
- "There will be no clerks at Keddie."

EASTWARD ↓				↑ WESTWARD					
Miles from Oroville Yard	Station	Mile Post	TIMETABLE NO. 8 STATIONS RULE 6-A	SDGS in Feet	Miles from Bieber	SECOND CLASS			
						5	7	9	11
						Daily	Daily	Daily	Daily
	204		FPY		111.8				18
	281	0.0	6.2 P		111.0		-		
79.8	6281	6.2	MOCASSIN	4208	105.6	inivite	100	nidi	
82.2	9281	8.6	CRESCENT MILLS	620	103.2	MYTA	S THE	0.497	
88.3	15281	14.7	GREENVILLE YP	4236	97.1	Milion	10.3		
99.3	25281	25.7	ALMANOR	7914	86.1	32.54	EU Y	1916	
108.8	35281	35.2	CLEAR CREEK JCT		76.6	in in			
113.0	39281	39.4	WESTWOOD	4412	72.4	AM	AM	PM	PM
117.4	44281	43.8	ROBBERS CREEK	7236	68.0	2.15	8.15	2.15	8.15
136.5	63281	62.9	LODGEPOLE YP	4219	48.9	1.50	7.50	1.50	7.50
150.1	76281	76.5	HALLS FLAT	6754	35.3	1.30	7.30	1.30	7.30
168.4	95281	94.8	LITTLE VALLEY	4192	17.0	12.40 12.01		12.40	6.40

Rule 540. Traffic Control System in effect Keddie to MP 55.8. Westward signal located at MP 57.5 is Distant Signal for Absolute Signal at MP 55.8.

Westward trains do not require clearance or train order authority to operate in TCS territory west of Robbers Creek and will be identified as "Extras West".

Rules T-82-A and 204. Train orders will be issued at Oroville Yard and Portola which affect movement on Fourth Subdivision. Train orders will be issued at Bieber which affect movement on Third Subdivision. Clearance is not required at Keddie. TCS Signals will govern movements between MP 55.8 and Oroville Yard or Portola. Eastward Trains will check with Fourth Sub Dispatcher and Westward Trains with Third Sub Dispatcher to determine they have all applicable Form "Z" orders before leaving Keddie.



The WESTERN PACIFIC used

"One-legged Train Orders" on the "Highline" between Keddie and Bieber connecting to the GN (BN) via Klamath Falls

In the final days of Train Orders, Dispatcher's issued "Train Orders via radio" to northbound trains nearing the end of CTC at Robber's Creek.

Radio Train Orders permitted eliminating the Agent/Operator positions at Keddie. Bieber Operators (and traditional Train Orders) continued because Bieber Operators were also Crew Callers.



Flagman courtesy of RailsonWheels