

STRETCH YOUR MODELING DOLLARS: OPERATE YOUR RR WITH SWITCHLISTS FOR FREE

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Overview of what we'll cover

- WHY consider using computer generated manifests and switchlists?
- WHAT can JMRI ops actually do (will it work for your RR?)
- HOW difficult is it to do?

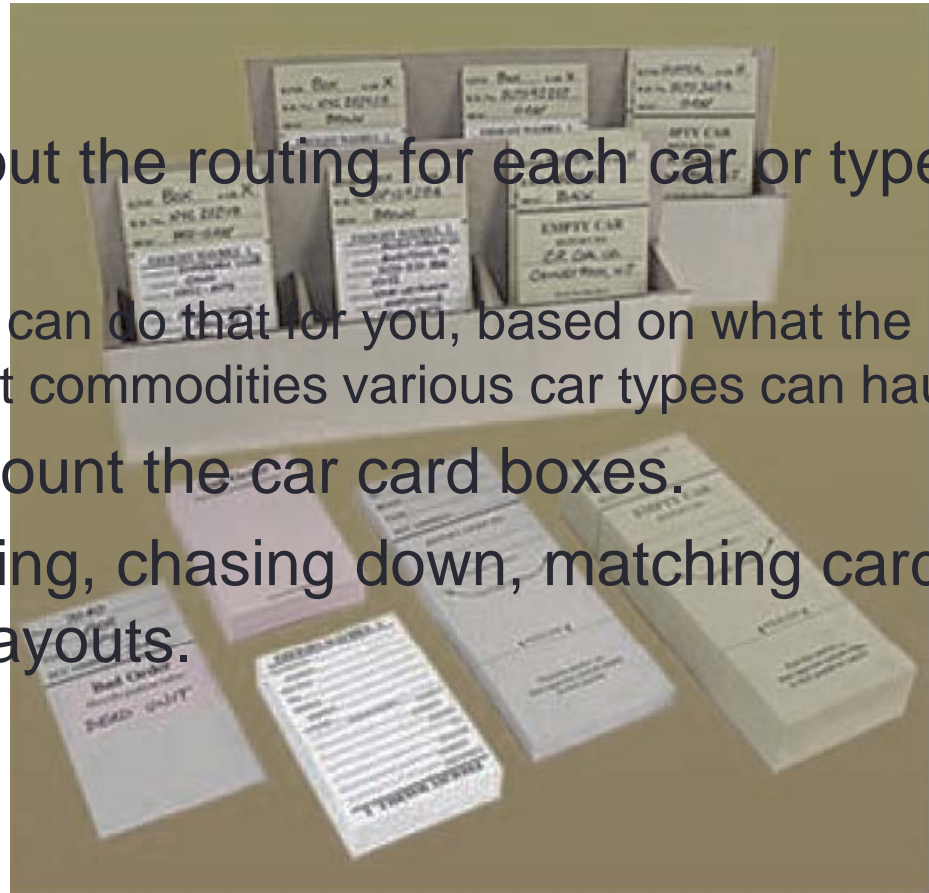
Why have this clinic

- For anyone willing to at least consider using computer generated switchlists.
- This is a clinic on JMRI's capabilities, and how to get/use it if you wish to try.
- JMRI is a "Swiss Army Knife" to control model railroads. This clinic is only about JMRI Operations, which is JMRI's car forwarding / management system.



Why JMRI? I'm Cheap and Lazy ...

- JMRI is free.
- I didn't want to figure out the routing for each car or type of car right at the start.
 - With JMRI the computer can do that for you, based on what the industries need and what commodities various car types can haul.
- I didn't want to build/mount the car card boxes.
- Was worried about losing, chasing down, matching cards as I've done w/ other layouts.

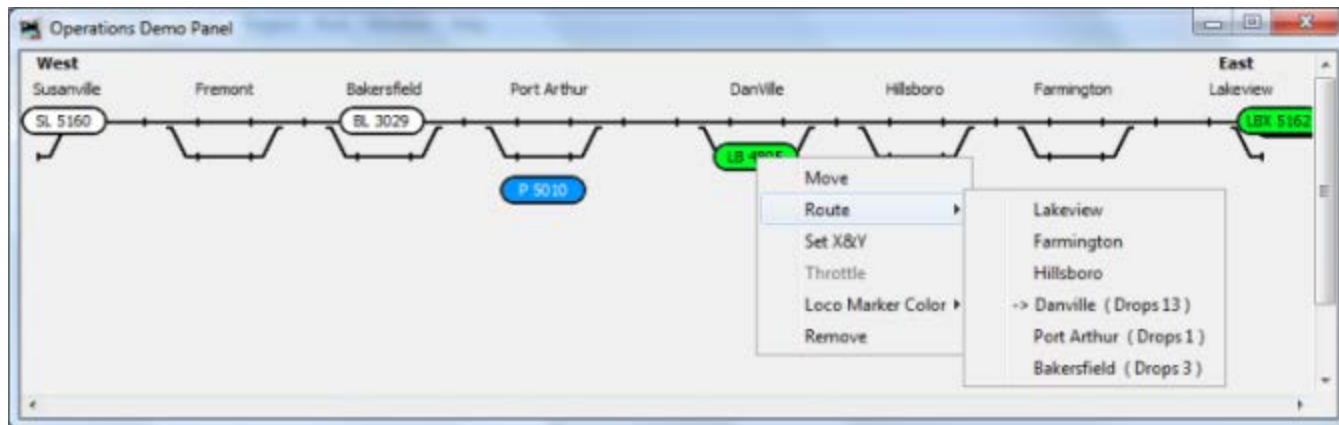


Myths about computer switchlists

- “Cherry Picking”
 - Some folks have a dislike for switchlists because they have operated on a RR where the program wasn’t set up correctly (GIGO)
- “Operatus Interruptis”
 - Quick restaging – can generate new switchlists based on where trains were left/what work was done last session.
- Not “self-healing”
 - If a car is brought to the wrong destination, and the card is brought with it, we’re ok -- not so with switchlists.
 - On the other hand if the card is misplaced you have a problem.
- Timing issues: a train arrives in Barstow expecting to pick up a car but that car isn’t there yet.
 - There are several ways to avoid that, it just involves setting up the program correctly.
- There’s stuff you can’t do with switchlists.
 - There may be, but I haven’t found it yet.

Train Tracker/ Dispatcher Screen

- One solution to any timing issues.
- Keep track of where the trains are, and if you like, generate new manifests in real time.
- Not required: Unlike some other car routing software, JMRI will never call for a car to be picked up that hasn't yet been set out.



Little known facts

- There isn't more data entry needed for switchlists than for car cards
 - Both require info on each car.
- Model RRs operating via switchlists are usually easier to restage.
 - It generally takes 3-4 folks 3 hours or more to verify and stage (including flipping cars) the C&S. With computer switchlists, only the verification part is needed, no decisions need to be made about which cars to flip etc.
- JMRI doesn't require an expensive computer or Windows.
 - Runs on Java (the "J" in "JMRI") which runs on Apple Macs, Linux, PCs with ANY windows version – just about everything.

Final thoughts before the “nuts and bolts” ‘how to’



- Not BETTER, but maybe MISUNDERSTOOD: many of the things operators say they dislike about computer switchlists are based on misinformation or misunderstanding.
- I’ll try and show you how much flexibility JMRI has to route cars however you want/need. But I can’t think of every possibility or prototype ... please ask questions before assuming “well it won’t do what I need”.
- Not a sales pitch – heck it’s FREE! With the facts you can make the best choice on how to operate your RR.

Some things you CAN do with JMRI Ops

- Prototypical use of specific car types (damage free insulated box cars etc.)
- Cars in dedicated service.
- Specific delivery sequences
- Custom loads and hazardous materials
- Interplant car routing (say within a steel mill)
- Car blocking and block swaps
- Classification tracks by train or destination
- Interchanges
- “Return when empty”
- Off-layout load origins-destinations
- More

Yard Job Blocking, Custom Load and Car Type Example

California Oregon & Western RR

Manifest for train (Klamath Falls Yard-2) Klamath Falls Yard Job 1st Trick
Valid February 26, 1984 on duty 08:05 BN 2175

Scheduled work in Klamath Falls

- [] Pickup BN 450657 HopGrain 50' Green Barley from Arrivals
- [] Pickup SP 674368 Box SPDDFI 51' Red MTY from Arrivals
Single Plug Door Damage Free Insulated Boxcar
- [] Pickup UP 31216 Gon 50' Red L from Arrivals
- [] Pickup VCY 25055 Reefer 57' Blue MTY from Arrivals
- [] Pickup CALX 3010 Tank Asphalt 54' Black MTY (Hazardous) from Arrivals
California Railcar 23,500 Gal. Tank Car
- [] Pickup PICK 1954 Boxcar SSD 50' Blue MTY from Arrivals Pickens Railroad

- [] Drop BN 450657 HopGrain 50' Green Barley to Alturas Block
- [] Drop SP 674368 Box SPDDFI 51' Red MTY to Alturas Block
Single Plug Door Damage Free Insulated Boxcar
- [] Drop UP 31216 Gon 50' Red L to BN North Block
- [] Drop VCY 25055 Reefer 57' Blue MTY to K Falls Indus Block
- [] Drop CALX 3010 Tank Asphalt 54' Black MTY (Hazardous) to SP West Block
California Railcar 23,500 Gal. Tank Car
- [] Drop PICK 1954 Boxcar SSD 50' Blue MTY to Stockton Block Pickens Railroad

Basics: Downloading, Installing, Running

- Go to <http://jmri.sourceforge.net/>
- Ok you're not going to remember that! Just Google "JMRI" ... you'll still find it just fine. 😊
- You'll get two icons on your desktop.
- For Operations (switchlists), click "Panel Pro".

Setting up your Layout

- Add Locations (towns, places on the RR)
 - Add industries, yards etc. at each location
- Create Routes – paths/cities trains go through.
 - Example: on the C&S, the route for the Afton turn would be Osage Yard, Claremore, Caletton, Afton, Caletton, Claremore, Osage.
- Create Trains that will run on the Routes (more than one Train can run the same Route).
 - Again using the C&S, you could have two trains, an AM Afton Turn and a PM Afton Turn, using that route.
 - Also some trains can stop at different towns in that route.

Name

Fort Smith

This location is serviced by trains traveling

- North
- South
- East
- West

Select the rolling stock serviced by this location

- Auto Rack
- Box
- Caboose
- Coach
- Ctr Beam
- Diner
- Flat
- Flat Blkhd
- Gon-scrap
- Gondola
- Hop Coal
- Hop Cov-Chem
- Hop Cov-Cmnt
- Hop Cov-Food
- Hop Rock
- Lounge
- MOW
- Pickle Car
- Pulpwood
- Reefer
- Sleeper
- Steel
- TOFC
- Tank Chem
- Tank Diesel
- Tank Food
- Tank Oil
- Well
- Woodchip
- Diesel
- Electric
- Engine
- Gas Turbine
- Steam
- Steam-heavy

Operations at this location

- Spurs
- Yards
- Interchange
- Staging only

Id	Spur Name	Length	Used	Reserved	Cars	Locos	Pick ups	Set outs
----	-----------	--------	------	----------	------	-------	----------	----------

Adding a new location

Add Spur Track

Comment

Delete Location

Add Location

Save Location

One by one, build a list of locations:

Id	Name	Length	Used	Rolling Stock	Pick ups	Set outs	
5	Ft Smith	2562	1091	20	0	0	Edit
6	Heavener	11770	6128	115	24	28	Edit
12	HV Industries	1690	446	9	7	7	Edit
13	Marble City	1000	1233	26	8	8	Edit
18	Pittsburg KS	17370	7962	145	25	22	Edit
10	Poteau	927	522	10	0	0	Edit
8	Sallisaw	6198	2125	40	15	34	Edit
19	Shreveport LA	17460	7506	131	23	25	Edit
9	Spiro	821	598	11	10	5	Edit
14	Stillwell	651	216	4	4	3	Edit
20	Van Buren	4100	2000	38	0	0	Edit
23	Van Buren-West	1100	0	0	0	0	Edit
21	Wagoner	2800	994	18	0	0	Edit
16	Waldron	1201	576	10	0	0	Edit
11	Westville	959	501	9	2	4	Edit

Sort by Name Id

Setting up your Layout

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- Create Trains that will run on the Routes (more than one Train can run the same Route).
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Tracks at the location

Edit Location

Tools Window Help

Name:

This location is serviced by trains traveling

North South East West

Select the rolling stock serviced by this location

Auto Rack Box Caboose Coach Ctr Beam Diner Flat
 Flat Blkhd Gon-scrap Gondola Hop Coal Hop Cov-Chem Hop Cov-Cmnt Hop Cov-Food
 Hop Rock Lounge MOW Pickle Car Pulpwood Reefer Sleeper
 Steel TOFC Tank Chem Tank Diesel Tank Food Tank Oil Well
 Woodchip Diesel Electric Engine Gas Turbine Steam Steam-heavy
 Steam light Steam mixed Steam pass Switcher

Operations at this location

Spurs Yards Interchange Staging only

Id	Spur Name	Length	Used	Reserved	Cars	Locos	Pick ups	Set outs	
9s3	35 Geo Ollies Lbr	235	226	-118	4	0	4	2	Edit
9s5	37 Hatter Feed	57	51	-51	1	0	1	0	Edit
9s2	38 COOP	165	125	-71	2	0	2	1	Edit
9s1	39 Wllms Molasses	214	152	-5	3	0	2	2	Edit
9s4	60 Oil Spot	150	44	-44	1	0	1	0	Edit

Comment:

Track Types

- Bad news: the program's "track type" names may not match the purposes you expect them to serve:
 - Spur track (formerly called "Siding"). Place where an industry is serviced.
 - Interchange track. Track where cars transfer between railroads, trains, or routes. **USED FOR CLASSIFICATION YARD TRACKS!**

Track types (continued)

- Yard Track. NOT a classification track (sorry). Just a general storage track where cars can be kept.
- Staging Tracks. Places where whole trains are parked and can originate and terminate intact.
- Use Schedules for complete routing control (like car cards except not just 4 destinations) or special routing i.e. through various processes in a steel mill etc.

Edit Spur Track [Minimize] [Maximize] [Close]

Tools Window Help

Name: Length: This spur is serviced by trains traveling: North South East West

Select the rolling stock serviced by this spur

<input type="checkbox"/> Auto Rack	<input checked="" type="checkbox"/> Box	<input type="checkbox"/> Caboose	<input checked="" type="checkbox"/> Ctr Beam	<input type="checkbox"/> Flat	<input checked="" type="checkbox"/> Flat Blkhd	<input type="checkbox"/> Gon-scrap
<input type="checkbox"/> Gondola	<input type="checkbox"/> Hop Coal	<input type="checkbox"/> Hop Cov-Chem	<input type="checkbox"/> Hop Cov-Cmnt	<input type="checkbox"/> Hop Cov-Food	<input type="checkbox"/> Hop Rock	<input type="checkbox"/> MOW
<input type="checkbox"/> Pickle Car	<input type="checkbox"/> Pulpwood	<input type="checkbox"/> Reefer	<input type="checkbox"/> Sleeper	<input type="checkbox"/> Steel	<input type="checkbox"/> TOFC	<input type="checkbox"/> Tank Chem
<input type="checkbox"/> Tank Food	<input type="checkbox"/> Tank Oil	<input type="checkbox"/> Well	<input type="checkbox"/> Woodchip	<input type="checkbox"/> Diesel	<input type="checkbox"/> Electric	<input type="checkbox"/> Engine
<input type="checkbox"/> Gas Turbine	<input type="checkbox"/> Steam	<input type="checkbox"/> Steam-heavy	<input type="checkbox"/> Steam-light	<input type="checkbox"/> Steam-mixed	<input type="checkbox"/> Steam-pass	<input type="checkbox"/> Switcher

Select the roads serviced by this track

Accept all Accept only Exclude

Select loads serviced by this track

Accept all Accept only Exclude

Select trains or routes for car set outs

Any Trains Routes

Select trains or routes for car pick ups

Any Trains Routes

Optional Schedule

Comment

Adding
an
industry
track

Setting up a classification (Interchange) track.

Edit Interchange Track

Tools Window Help

Name: Length: This interchange track is serviced by trains traveling North South

Select the rolling stock serviced by this interchange track

<input checked="" type="checkbox"/> Auto Rack	<input checked="" type="checkbox"/> Box	<input checked="" type="checkbox"/> Caboose	<input type="checkbox"/> Coach	<input checked="" type="checkbox"/> Ctr Beam	<input type="checkbox"/> Diner	<input checked="" type="checkbox"/> Flat
<input checked="" type="checkbox"/> Flat Blkhd	<input checked="" type="checkbox"/> Gon-scrap	<input checked="" type="checkbox"/> Gondola	<input checked="" type="checkbox"/> Hop Coal	<input checked="" type="checkbox"/> Hop Cov-Chem	<input checked="" type="checkbox"/> Hop Cov-Cmnt	<input checked="" type="checkbox"/> Hop Cov-Food
<input checked="" type="checkbox"/> Hop Rock	<input type="checkbox"/> Lounge	<input checked="" type="checkbox"/> MOW	<input checked="" type="checkbox"/> Pickle Car	<input checked="" type="checkbox"/> Pulpwood	<input checked="" type="checkbox"/> Reefer	<input checked="" type="checkbox"/> Sleeper
<input checked="" type="checkbox"/> Steel	<input checked="" type="checkbox"/> TOFC	<input checked="" type="checkbox"/> Tank Chem	<input type="checkbox"/> Tank Diesel	<input checked="" type="checkbox"/> Tank Food	<input checked="" type="checkbox"/> Tank Oil	<input checked="" type="checkbox"/> Well
<input checked="" type="checkbox"/> Woodchip	<input checked="" type="checkbox"/> Diesel	<input checked="" type="checkbox"/> Electric	<input checked="" type="checkbox"/> Engine	<input checked="" type="checkbox"/> Gas Turbine	<input checked="" type="checkbox"/> Steam	<input checked="" type="checkbox"/> Steam-heavy

Select the roads serviced by this track

Accept all Accept only Exclude

Select loads serviced by this track

Accept all Accept only Exclude

Select pick up car order

Normal First In First Out (FIFO) Last In First Out (LIFO)

Select trains or routes for car set outs

Any Trains Routes

NB Through SB Through

Select trains or routes for car pick ups

Any Trains Routes

Sallisaw Dodger

Comment

Staging track.

Edit Staging Track [Close] [Maximize] [Minimize]

Tools Window Help

Name: Length: This staging track is serviced by trains traveling: North South East West

Select the rolling stock serviced by this staging track

<input checked="" type="checkbox"/> Auto Rack	<input checked="" type="checkbox"/> Box	<input checked="" type="checkbox"/> Caboose	<input type="checkbox"/> Coach	<input checked="" type="checkbox"/> Ctr Beam	<input type="checkbox"/> Diner	<input checked="" type="checkbox"/> Flat
<input checked="" type="checkbox"/> Flat Blkhd	<input checked="" type="checkbox"/> Gon-scrap	<input checked="" type="checkbox"/> Gondola	<input checked="" type="checkbox"/> Hop Coal	<input checked="" type="checkbox"/> Hop Cov-Chem	<input checked="" type="checkbox"/> Hop Cov-Cmnt	<input checked="" type="checkbox"/> Hop Cov-Food

Select the roads serviced by this track

Accept all Accept only Exclude

Select loads serviced by this track

Accept all Accept only Exclude

Select trains or routes for arrivals

Any Trains Routes

[Add] [Delete]

Select trains or routes for departures

Any Trains Routes

[Add] [Delete]

Optional car load controls <input type="checkbox"/> Swap default loads and empties <input type="checkbox"/> Empty cars with default loads	Optional custom car load controls <input type="checkbox"/> Empty cars with custom loads <input type="checkbox"/> Generate custom loads for spurs serviced by this train <input type="checkbox"/> Generate custom loads for any spur (multiple trains)	Optional Car Blocking <input type="checkbox"/> Block cars by pick up location
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Comment:

[Delete Staging Track] [Add Staging Track] [Save Staging Track]

Schedules (Optional)

Edit Schedule for Siding Sotol Tequila Chihuahua

Tools Window Help

Name: Comment: Mode: Sequential Match

Id	Current	Type	Road	Receive	Ship	Destination	Track	Count	Wait							
17c1		Boxcar SSD	CHP	▼	▼	Tequila Load	▼	Fuadene	▼	Oregon Liquor Commission-1	▼	1	0	Up	Down	Dele...
17c2		Boxcar SSD	CHD	▼	▼	Tequila Load	▼	Seattle	▼	Northwest Beverages-1	▼	1	0	Up	Down	Dele...
17c3	-->	Boxcar SSD	CHP	▼	▼	Tequila Load	▼	Alturas	▼	Modoc-Jassen Beverages	▼	1	0	Up	Down	Dele...
17c4		Boxcar SSD	CHP	▼	▼	Tequila Load	▼	Pasco	▼	Hill & Mundell Beverages	▼	1	0	Up	Down	Dele...

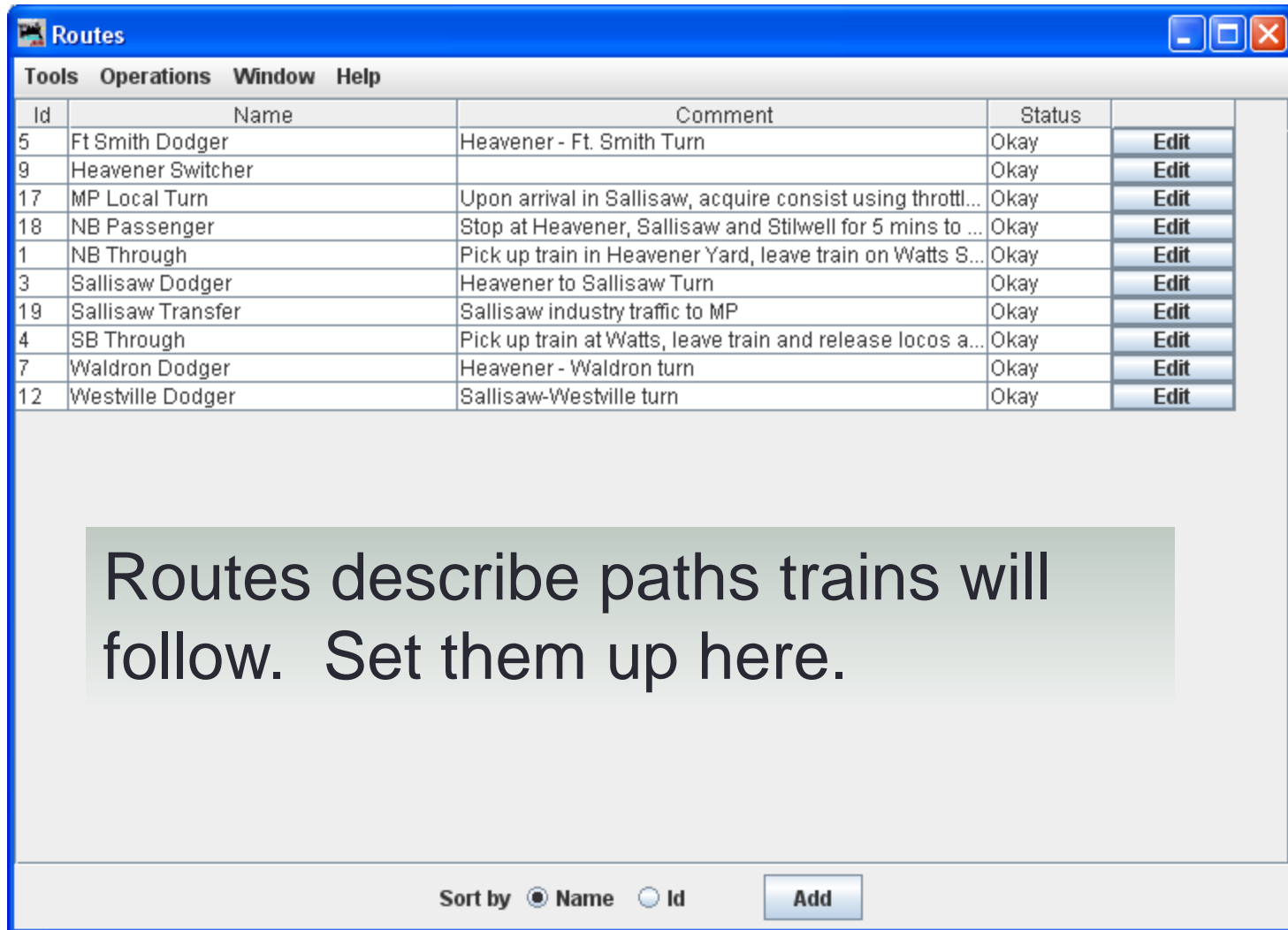
Add New Delivery

Add at start Add at end

Setting up your Layout

- Add Locations (towns, places on the RR)
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- Create Routes – paths/cities trains go through.
 - Example: on the C&S, the route for the Afton turn would be Osage Yard, Claremore, Caletton, Afton, Caletton, Claremore, Osage.
- Create Trains that will run on the Routes (more than one Train can run the same Route).
 - Again using the C&S, you could have two trains, an AM Afton Turn and a PM Afton Turn, using that route.
 - Also some trains can stop at different towns in that route.

Routes



The screenshot shows a software window titled "Routes" with a menu bar containing "Tools", "Operations", "Window", and "Help". The main area contains a table with the following data:

Id	Name	Comment	Status	
5	Ft Smith Dodger	Heavener - Ft. Smith Turn	Okay	Edit
9	Heavener Switcher		Okay	Edit
17	MP Local Turn	Upon arrival in Sallisaw, acquire consist using throttl...	Okay	Edit
18	NB Passenger	Stop at Heavener, Sallisaw and Stilwell for 5 mins to ...	Okay	Edit
1	NB Through	Pick up train in Heavener Yard, leave train on Watts S...	Okay	Edit
3	Sallisaw Dodger	Heavener to Sallisaw Turn	Okay	Edit
19	Sallisaw Transfer	Sallisaw industry traffic to MP	Okay	Edit
4	SB Through	Pick up train at Watts, leave train and release locos a...	Okay	Edit
7	Waldron Dodger	Heavener - Waldron turn	Okay	Edit
12	Westville Dodger	Sallisaw-Westville turn	Okay	Edit

Below the table, there is a text box containing the following text:

Routes describe paths trains will follow. Set them up here.

At the bottom of the window, there is a "Sort by" section with radio buttons for "Name" (selected) and "Id", and an "Add" button.

Route for the Ft. Smith Dodger

Edit Route [Window Icons]

Tools Window Help

Name: Comment:

Id	Location	Train Direction	Moves	Pick ups?	Set outs?	Wait	Max Length	Grade	X	Y	Comment				
5r1	Heavener	North	15	yes	no	0	1800	0.0	0	0	Add	Up	Down	Dele...	
5r2	Poteau	North	10	yes	yes	0	1800	0.0	0	0	Add	Up	Down	Dele...	
5r3	Ft Smith	South	22	yes	yes	0	1800	0.0	0	0	Add	Up	Down	Dele...	
5r4	Poteau	South	10	yes	yes	0	1800	0.0	0	0	Add	Up	Down	Dele...	
5r5	Heavener	North	17	no	yes	0	1800	0.0	0	0	Add	Up	Down	Dele...	

Location: Add location at start Add location at end

Display: Wait Departure Time

Setting up your Layout

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 - Also some trains can stop at different towns in that route.

Trains on the KCS 3rd Sub

Trains

Tools Operations Window Help

Ti...	Build		Name	Description	Route	Departs	Terminates
05:00	<input type="checkbox"/>	Prev...	4 SVKC	NB Shreveport - Pittsburg (no work enroute)	NB Through	Shreveport LA	Pittsburg KS
05:00	<input type="checkbox"/>	Prev...	Westville Dodger	Sallisaw-Westville turn	Westville Dodger	Sallisaw	Sallisaw
05:10	<input type="checkbox"/>	Prev...	77 Super Dog S	SB Pittsburg-Shreveport, works Sallisaw	SB Through	Pittsburg KS	Shreveport LA
05:30	<input type="checkbox"/>	Prev...	Sallisaw Dodger AM	Heavener-Sallisaw turn	Sallisaw Dodger	Heavener	Heavener
07:00	<input type="checkbox"/>	Build	81 PTVS	SB Pittsburg - Shreveport, works Heavener	SB Through	Pittsburg KS	Shreveport LA
08:10	<input type="checkbox"/>	Build	82 SVPT	NB Shreveport-Pittsburg, works Heavener	NB Through	Shreveport LA	Pittsburg KS
09:00	<input type="checkbox"/>	Build	92	NB BN coal MT (no work)	NB Through	Shreveport LA	Pittsburg KS
10:00	<input type="checkbox"/>	Build	Crown Z Switcher	Crown Zellerbach plant job	Sallisaw Transfer	Sallisaw	Sallisaw
10:10	<input type="checkbox"/>	Build	91	SB BN Coal Load (no work)	SB Through	Pittsburg KS	Shreveport LA
11:00	<input type="checkbox"/>	Build	3 KCSV	SB Pittsburg - Shreveport (no work enroute)	SB Through	Pittsburg KS	Shreveport LA
11:00	<input type="checkbox"/>	Prev...	Heavener Switcher	Works local Heavener industries	Heavener Switcher	Heavener	Heavener
12:10	<input type="checkbox"/>	Build	78 Super Dog N	NB Shreveport-Pittsburg, works Sallisaw	NB Through	Shreveport LA	Pittsburg KS
12:30	<input type="checkbox"/>	Build	Ft Smith Dodger	Ft Smith Dodger	Ft Smith Dodger	Heavener	Heavener
13:00	<input type="checkbox"/>	Build	2 NOKC	NB Shreveport-Pittsburg, works Heavener	NB Through	Shreveport LA	Pittsburg KS
13:15	<input type="checkbox"/>	Build	Waldron Dodger	Heavener-Waldron Turn	Waldron Dodger	Heavener	Heavener
13:30	<input type="checkbox"/>	Build	Sallisaw Dodger PM	Transfer job (cars to/from WVD) plus Spiro work	Sallisaw Dodger	Heavener	Heavener
15:00	<input type="checkbox"/>	Build	57	SB SP/DRGW Coal Loads (no work enroute)	SB Through	Pittsburg KS	Shreveport LA
15:10	<input type="checkbox"/>	Build	1 KCNO	SB Pittsburg-Shreveport, works Heavener	SB Through	Pittsburg KS	Shreveport LA
15:30	<input type="checkbox"/>	Build	MP 119	MP Local Turn	MP Local Turn	Van Buren	Van Buren-West
17:10	<input type="checkbox"/>	Build	824	NB Amtrak Southern Belle	NB Passenger	Shreveport LA	Pittsburg KS

◀
|||
▶

Show (click on column he

Options

Action

Time Id

Show All
 Messages
 Build Reports
 Preview

Move
 Conductor
 Terminate
 Reset

Adding or Editing a train

Edit Train [Close] [Maximize] [Minimize]

Tools Window Help

Name: Description:

Departure Time (hh:mm): Route:

This train services the following locations

- Sallisaw
- Marble City
- Stillwell
- Westville
- Stillwell
- Marble City

Select car types serviced by this train

<input checked="" type="checkbox"/> Auto Rack	<input checked="" type="checkbox"/> Box	<input checked="" type="checkbox"/> Caboose	<input type="checkbox"/> Coach	<input checked="" type="checkbox"/> Ctr Beam	<input type="checkbox"/> Diner
<input checked="" type="checkbox"/> Flat Blkhd	<input checked="" type="checkbox"/> Gon-scrap	<input checked="" type="checkbox"/> Gondola	<input checked="" type="checkbox"/> Hop Coal	<input checked="" type="checkbox"/> Hop Cov-Chem	<input checked="" type="checkbox"/> Hop Cov-Cmnt
<input checked="" type="checkbox"/> Hop Rock	<input type="checkbox"/> Lounge	<input checked="" type="checkbox"/> MOW	<input checked="" type="checkbox"/> Pickle Car	<input checked="" type="checkbox"/> Pulpwood	<input checked="" type="checkbox"/> Reefer
<input checked="" type="checkbox"/> Steel	<input checked="" type="checkbox"/> TOFC	<input checked="" type="checkbox"/> Tank Chem	<input type="checkbox"/> Tank Diesel	<input checked="" type="checkbox"/> Tank Food	<input checked="" type="checkbox"/> Tank Oil

Select locomotive types serviced by this train

<input checked="" type="checkbox"/> Diesel	<input checked="" type="checkbox"/> Electric	<input checked="" type="checkbox"/> Engine	<input checked="" type="checkbox"/> Gas Turbine	<input checked="" type="checkbox"/> Steam	<input checked="" type="checkbox"/> Steam-heavy	<input checked="" type="checkbox"/> Ste
--	--	--	---	---	---	---

Optional train requirements

Locomotives: Model: Road:

None FRED Caboose Road:

Comment

Rolling Stock

- Enter information for every railcar (the tedious part). You can import from other systems, even car card systems if you have the list on a computer or spreadsheet.
- Enter information for every locomotive.

Number	Road	Type	Len	Color	...	Location	Destination	Train	Moves
2	MEC	Reefer	50	Orange		Sallisaw (WVD)			10
2	MKT	Hop Cov-Chem	45	Black		Shreveport LA (10)	->Pittsburg KS		8
5	KCS	MOW	90	Red		<O>			0
13	MKT	Hop Cov-Chem	45	Black		Shreveport LA (10)	->Sallisaw		12
15	BKTY	Reefer	55	Red		Ft Smith (003 BN Interchange)			10
0017	MOW	MOW	40	Black		Wagoner (1)			0
017	MOW	MOW	40	Black		Pittsburg KS (2)			0
34	KCS	Caboose (C)	40	Silver		<O>			0
38	KCS	Caboose (C)	40	Red		Pittsburg KS (2)			0
73	HEINZ	Pickle Car	40	Red		Pittsburg KS (6)	->Heavener		4
79	KOTX	Tank Chem	34	White		<O>			0
99	MKT	Box	40	Red		Heavener (4 Poteau & Ft Smith)			9
100	ANPX	Tank Chem	40	Gray		Sallisaw (028 Holly Carburetor)	Shreveport LA (4)->Sallisaw	77 Super Dog S	14
103	AMTK	Sleeper	83	Silver		Shreveport LA (11)			3
103	FEIX	Hop Cov-Food	52	Gray		Pittsburg KS (4)	Sallisaw (WVD)	77 Super Dog S	13
103	VUHX	Hop Cov-Food	54	Green		Heavener (2 NB)			14
104	AMTK	Diner	83	Silver		Shreveport LA (11)			3
104	NGTX	Tank Chem	60	Black		Wagoner (1)			2
105	AMTK	Lounge	83	Silver		Shreveport LA (11)			3
106	AMTK	Coach	83	Silver		Shreveport LA (11)			3
107	AMTK	Coach	83	Silver		Shreveport LA (11)			3
107	BLPY	Tank Oil	32	White		<O>			0
108	MKT	Caboose (C)	35	Red		<O>			0
121	RPCX	Box	53	Tuscan		<O>			0
201	STRM	Tank Oil	40	Black		<O>			0
270	KOTX	Tank Oil	40	White		<O>			0
310	GRDX	Hop Coal	48	Black		Pittsburg KS (12)			4
314	KCS	Caboose (C)	40	Silver		Pittsburg KS (2)			4
321	GRDX	Hop Coal	48	Black					3
325	KCS	Caboose (C)	40	Silver		Shreveport LA (5)	->Heavener		14

Rolling Stock List

Sort by Number Road Type Color Load Kernel Location Destination FD RWE Train Moves Built Owner

844 cars

Add

Save

Find

Adding or Editing Rolling Stock

Edit Car [Window] [Help]

Road
NGTX [Edit]

Road Number
104 [Clear]

Type
Tank Chem [Edit] Hazardous
 Passenger Caboose FRED

Length
60 [Edit]

Weight
Ounces 5.6 [Calculate] Auto
Tons 112

Location and Track
Wagoner [1] Auto

Optional

Color
Black [Edit]

Load
E [Edit]

Kernel
[Edit]

Built
2009

Owner
Van Gas [Edit]

Comment

[Delete] [Add] [Save]

Generating the manifests/switchlists

- All (or most) at once, before the ops session
 - Sequence is important.
 - Have enough cars on tracks to generate all needed trains.
 - Can still “ungenerate” by not “terminating” the train if the train doesn’t run.
- In real time
 - Using Dispatcher screen – great feature for those without CTC but wanting to dispatch.
 - Using the “Conductor View”.

Set up your manifests and switchlists the way YOU want

Print Options Window Help

Manifest Options

Font: **Monospaced** Font Size: **10** Orientation: **Portrait** Pick Up Text Color: **Red** Set Out Text Color: **Blue** Local Move Text Color: **Green** Message Format: Tabular Switch List Format: Same as Manifest

Pick Up Locomotive Message Format

Road Number Model Location Consist + -

Set Out Locomotive Message Format

Road Number Model Destination + -

Pick Up Car Message Format

Road Number Type Length Color Hazardous Location Pickup Msg Destination + -

Set Out Car Message Format

Road Number Type Length Color Hazardous Destination SetOut Msg + -

Local Move Message Format

Road Number Type Length Color Hazardous Location Destination + -

Manifest Comments

Location Route Loads and Empties 12hr Format Show Timetable

Logo

C:\Documents and Settings\ccrtrl1sgd\My Documents\Model RR\SDavisKCS\kcs.gif

Misplaced Cars Comment

Manifest Preview Use Text Editor

Build Report Options

Detail Level: Minimal Normal Detailed Very Detailed

Use Text Editor to Preview Build Reports

Switchlist format for the COW

California Oregon & Western RR

Manifest for train (WCEUY) West Colton to Eugene Manifest

Valid June 21, 1984 14:50

- [] Pick up SP 9191 SD45T-2 from West Colton Diesel Shop
- [] Pick up SSW 9261 SD45T-2 from West Colton Diesel Shop
- [] Pick up SSW 9290 SD45T-2 from West Colton Diesel Shop

Scheduled work in West Colton, departure time 06:20

- [] Pick up SSW 88325 FlatBulkHead 60' Red MTY from WC Yard
- [] Pick up SSW 48235 Boxcar PSD 50' Red MTY from WC Yard
- [] Pick up SSW 67739 Boxcar DSD 51' Red MTY from Sunset Lumber Roller
- [] Pick up SP 242030 Boxcar DSD 50' Red MTY from Sunset Lumber Roller
- [] Pick up CALX 3042 Tank Asphalt 54' Black MTY (Hazardous) from WC Yard
- [] Pick up SP 242530 Boxcar DSD 51' Red MTY from WC Yard
- [] Pick up SP 509368 FlatBulkHead 60' Red MTY from WC Yard
- [] Pick up SP 699723 Box SPDDFI 51' Red MTY from WC Yard
- [] Pick up ACFX 91901 TankKaolin 40' White Kaolin_Load from Engelhard Gordon
- [] Pick up SSW 47 Caboose 40' Red from Colton Cab Track

Train departs West Colton Eastbound with 10 cars, 772 feet, 949 tons

Scheduled work in Roseville, estimated arrival time 07:05

- [] Pick up MOBX 14240 Tank Asphalt 54' Black Asphalt Load (Hazardous)
from Martinez Asphalt Loading
- [] Pick up BCOL 818519 FlatBulkHead 57' Green MTY from Overland Lumber Roller
- [] Pick up SP 621112 Box DPDDFA 60' Red MTY from GM Warm Springs
- [] Pick up SSW 67566 Boxcar DSD 50' Red MTY from Overland Lumber Roller
- [] Pick up SP 242423 Boxcar DSD 51' Red MTY from Overland Lumber Roller
- [] Pick up SP 228021 Box DPDHCP 50' Red MTY from Oakland Tribune Receiving
- [] Pick up SP 18971 Boxcar SSD 50' Yellow MTY from Pacific Aluminum

Train departs Roseville Eastbound with 17 cars, 1108 feet, 1192 tons

No work at Dunsmuir

Scheduled work in Klamath Falls, estimated arrival time 08:20

- [] Pick up SP 694579 Box DPDDFI 51' Red Laminates from Eugene Block
Double Plug Door Damage Free Insulated Boxcar
- [] Set out MOBX 14240 Tank Asphalt 54' Black Asphalt Load (Hazardous) to Arrivals
Mobil Oil 23,500 Gal. Tank Car
- [] Set out BCOL 818519 FlatBulkHead 57' Green MTY to Arrivals
- [] Set out SSW 48235 Boxcar PSD 50' Red MTY to Arrivals Plug Slide Door Boxcar

Train departs Klamath Falls Eastbound with 15 cars, 990 feet, 1127 tons

KCS

Manifest for train (Sallisaw Dodger MM) Heavener-Sallisaw turn

Valid 1/9, 1982 20:45



Local cars to/from Sallisaw plus Spiro work. Work Spiro Siding on NB trip, work Spiro Main on return (SB) trip. Tie up in Heavener yard.

[] Pick up KCS 796 GP40 796 from Engine House

[] Pick up KCS 798 GP40 796 from Engine House

Heavener to Sallisaw Turn

Scheduled work at Heavener, departure time 05:30

[] Pick up CN 401082 Box 50' Tuscan from 3 Spiro & Sallisaw -> Spiro
 [] Pick up UP 492938 Box 50' Yellow from 3 Spiro & Sallisaw -> Spiro
 [] Pick up UP 215622 Flat Blkhd 60' Yellow from 3 Spiro & Sallisaw -> Sallisaw
 [] Pick up KCS 310538 Hop Cov 55' Tuscan from 3 Spiro & Sallisaw -> Sallisaw
 [] Pick up LN 97101 Box 50' Blue from 3 Spiro & Sallisaw -> Sallisaw
 [] Pick up LN 98253 Box 50' Brown from 3 Spiro & Sallisaw -> Sallisaw
 [] Pick up KCS 113526 Box 50' Brown from 3 Spiro & Sallisaw -> Sallisaw
 [] Pick up CR 627045 Steel 50' Tuscan from 3 Spiro & Sallisaw -> Sallisaw
 [] Pick up DUPX 17023 Tank Chem 52' Gray from 3 Spiro & Sallisaw -> Sallisaw
 [] Pick up SP 651671 Box 50' Tuscan from 3 Spiro & Sallisaw -> Sallisaw
 [] Pick up ACFX 79625 Tank Chem 53' Black from 3 Spiro & Sallisaw -> Sallisaw
 [] Pick up RBOX 33642 Box 50' Yellow from 3 Spiro & Sallisaw -> Spiro
 [] Pick up USLX 26477 Hop Cov 55' Orange from 3 Spiro & Sallisaw -> Spiro
 [] Pick up Cx0 481895 Box 50' Blue from 3 Spiro & Sallisaw -> Spiro
 [] Pick up KCS 407 Caboose 38' White from Caboose -> Heavener

Train departs Heavener Northbound with 15 cars, 949 feet, 1364 tons

No work at Poteau

Scheduled work at Spiro, estimated arrival time 06:00

[] Pick up YW 25134 Box 50' Blue from 35 Geo Ollies Lbr -> Heavener
 [] Pick up Cx0 22678 Box 50' Blue from 35 Geo Ollies Lbr -> Heavener
 [] Pick up ATSF 95382 Flat 60' Red from 35 Geo Ollies Lbr -> Heavener
 [] Pick up UP 492956 Box 50' Yellow from 35 Geo Ollies Lbr -> Heavener
 [] Set out CN 401082 Box 50' Tuscan to 35 Geo Ollies Lbr
 [] Set out UP 492938 Box 50' Yellow to 35 Geo Ollies Lbr

Train departs Spiro Northbound with 17 cars, 1067 feet, 1504 tons

Scheduled work at Sallisaw, estimated arrival time 06:33

[] Pick up SLSF 88228 Hop Rock 50' Black from SSD -> Heavener
 [] Pick up RBNX 90422 Reefer 50' Yellow from SSD -> Heavener
 [] Pick up SPFE 458834 Reefer 58' White from SSD -> Heavener
 [] Pick up ROCK 980004 Hop Cov 50' Blue from SSD -> Heavener
 [] Pick up AMCX 6809 Hop Cov 54' Gray from SSD -> Heavener
 [] Pick up SHPX 52701 Hop Cov 55' White from SSD -> Heavener
 [] Pick up Bx0 486959 Box 50' Blue from SSD -> Heavener

Format
I use on
the
KCS 3rd
Sub

Reconciling after an Ops Session

- Operators' notes on switchlists (missing cars, off-spots, bad order cars removed, etc.)
- Print list of cars by location.
- Go through each location, confirm the cars are there.
- Restaging and generating lists for the next session: PHS!
 - (The KCS 3rd sub, like the C&S, is actually circular so it is auto-restaging).



Window Help

Train

Westville Dodger

Description

Sallisaw-Westville turn

Railroad Name

KCS

Train Comment

Originate Sallisaw, Marble City setouts outbound, turn at Westville, MC pickups on return.

Route Comment

Sallisaw-Westville turn

Location

Marble City

Next Location

Stillwell

Pick up

True Real-Time
Ops

Set out

- WAB 41123 Hop Cov 40' Gray to Lime Loader
- CRR 60056 Hop Cov 34' Black to Lime Loader
- GN 73976 Hop Cov 35' Brown to Lime Loader
- SLSF 78465 Hop Cov 40' Gray to Lime Loader
- SLSF 89022 Hop Cov 35' Gray to Lime Loader
- N&W 180297 Hop Cov 38' Gray to Lime Loader
- SP 401226 Hop Cov 40' Gray to Lime Loader
- CR 876322 Hop Cov 35' Brown to Lime Loader

Train departs Marble City Northbound with 8 cars, 567 feet, 766 tons

Work

Select all

Clear all

Set

Train

Move

Questions?