JMRI Operations

Dennis Drury

So what is JMRI?

JMRI stands for Java Model Railroad Interface. It includes:

- DecoderPro®
- PanelPro™
- SoundPro
- And Operations

So what is JMRI Operations?

A. JMRI Operations is a computerized car forwarding / management system

B. The operations program will allow you to print out the paperwork that will enable your operating crew to run your layout in a more prototypical manner.

C. If you have also created a panel for your railroad, the operations program will place icons on it to track the progress of your trains as they run across the railroad.

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Sounds great. How do we begin.

The operations program is found in all the JMRI startup applications. Click on Tools then Operations to get started.
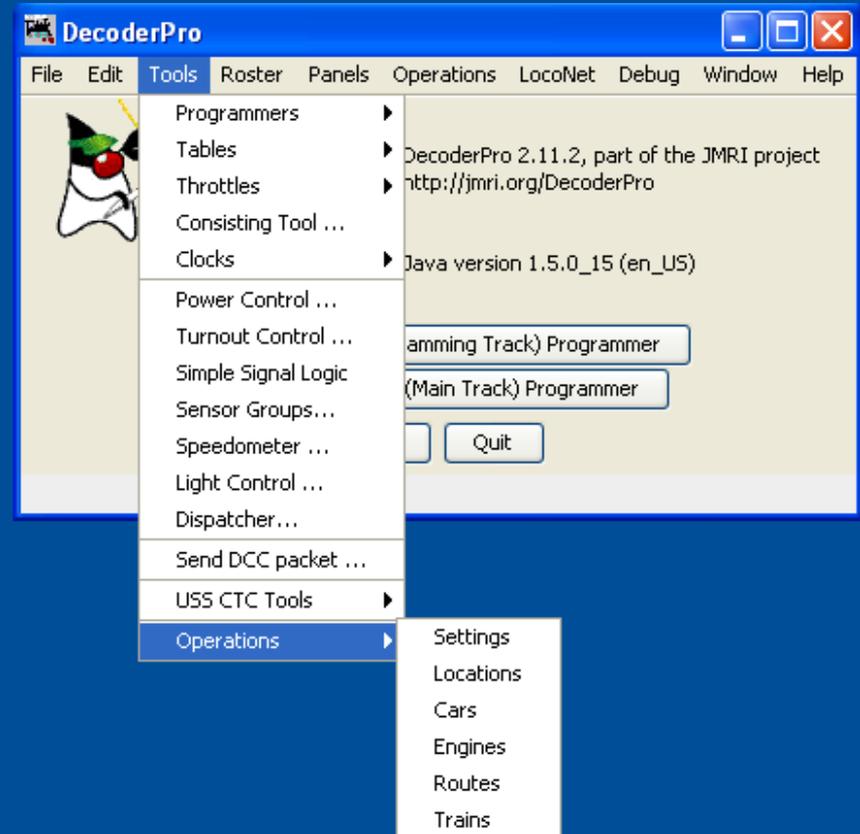
Paperwork examples

The next three slides show examples of the paperwork generated.

The K Falls switcher list shows the yard engine moving a cut of cars from the arrival track and sorting them into the correct outbound blocks. All the crew has to do is follow the list and check off the entries as the work is done.

The second list shows a portion of the work for the Southern Pacific RVEUY train. It shows the train being built in Roseville and the work it does in Klamath Falls.

Last is the local that runs on my layout, the Gilchrist Turn.

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train (K Falls Switcher-1).txt - Notepad

File Edit Format View Help

Southern Pacific Klamath Falls Sub

Manifest for train (K Falls Switcher-1) Klamath Falls Switcher
Valid 12/28/1984 14:46

Scheduled work at Klamath Falls, departure time 00:30
 [ ] Pick up SP 2523 SW1500 from Klamath Falls Roundhouse
 [ ] Move USLX 3015 Boxcar Plywood from Arrivals -> Klamath Falls, BN Block
 [ ] Move SP 564084 Log Car MTY-Logs from Arrivals -> Klamath Falls, Gilchrist Block
 [ ] Move OTTX 90238 Flat MT from Arrivals -> Klamath Falls, SP East Block
 [ ] Move SP 354282 Gon Woodchips from Arrivals -> Klamath Falls, SP East Block
 [ ] Move SOU 43401 Boxcar MTY from Arrivals -> Klamath Falls, SP West Block
 [ ] Move SSW 67411 Boxcar Lumber from Arrivals -> Klamath Falls, SP West Block
 [ ] Move SSW 67612 Boxcar Lumber from Arrivals -> Klamath Falls, SP West Block
 [ ] Move SP 599378 Flat Lumber from Arrivals -> Klamath Falls, SP West Block
 [ ] Move SP 699642 Boxcar MTY from Arrivals -> Klamath Falls, SP West Block
 [ ] Move UTLX 910305 Tank MTY-Propane (H) from Arrivals -> Klamath Falls, SP West Block
 [ ] Set out SP 2523 SW1500 to Klamath Falls Roundhouse
Train terminates in Klamath Falls

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Southern Pacific Klamath Falls Sub

Manifest for train (SP RVEUY) SP Roseville to Eugene Manifest
Valid 12/28/1984 14:49

Scheduled work at Roseville, departure time 05:00
 [ ] Pick up D&RGW 5399 SD40T-2 from Roseville Roundhouse
 [ ] Pick up D&RGW 5411 SD40T-2 from Roseville Roundhouse
 [ ] Pick up SP 8277 SD40T-2 from Roseville Roundhouse
 [ ] Pick up SSW 9053 SD45 from Roseville Roundhouse
 [ ] Pick up OTTX 90075 Flat MTY from Huffman Lumber
 [ ] Pick up CALX 3010 Tank Asphalt (H) from Huntway Refining
 [ ] Pick up SSW 88168 BHFlat MTY from Lumber Roller BHFlat
 [ ] Pick up SP 509445 BHFlat MTY from Lumber Roller BHFlat
 [ ] Pick up SSW 88325 BHFlat MTY from Lumber Roller BHFlat
 [ ] Pick up SP 242530 Boxcar MTY from Lumber Roller Box
 [ ] Pick up SSW 67363 Boxcar MTY from Lumber Roller Box
 [ ] Pick up SP 242030 Boxcar MTY from Lumber Roller Box
 [ ] Pick up SP 694579 Boxcar Wine from Gallo
 [ ] Pick up UOCX 10327 Tank Diesel (H) from Unocal Diesel
 [ ] Pick up SP 215803 Boxcar MTY from Georgia Pacific
 [ ] Pick up SP 621112 Boxcar MTY from Gemco
 [ ] Pick up SOU 43428 Boxcar Furniture from Matthews Furniture
 [ ] Pick up SSW 67566 Boxcar MTY from Lumber Roller Box
 [ ] Pick up SP 599346 Flat MTY from Burns Lumber
 [ ] Pick up UTLX 11360 Tank Acid (H) from Rhone Poulenc
 [ ] Pick up SP 699723 Boxcar Canned Food from Hunt Wesson
 [ ] Pick up SSW 48235 Boxcar Canned Food from Salinas Canning
 [ ] Pick up SP 496543 HopGrain MTY from Anheuser Busch
 [ ] Pick up TTPX 804150 BHFlat MTY from TTPX
 [ ] Pick up SP 354295 Gon Woodchips from Sierra Pacific Chip
 [ ] Pick up ACFX 71901 Tank Kaolin from Englehard Kaolin
 [ ] Pick up SP 228021 Boxcar MTY from Sacramento Bee
 [ ] Pick up SP 1544 Caboose from Caboose Track
Train departs Roseville Eastbound with 9 loads, 15 empties, 1,671 feet, 2,021 tons

No work at Dunsmuir

Scheduled work at Klamath Falls, estimated arrival time 05:10
 [ ] Pick up PFE 453318 Reefer Frozen Food from SP East Block
 [ ] Pick up SP 354282 Gon Woodchips from SP East Block
 [ ] Set out OTTX 90075 Flat MTY from Roseville -> Klamath Falls, Arrivals
 [ ] Set out CALX 3010 Tank Asphalt (H) from Roseville -> Klamath Falls, Arrivals
 [ ] Set out SSW 88168 BHFlat MTY from Roseville -> Klamath Falls, Arrivals
 [ ] Set out SP 509445 BHFlat MTY from Roseville -> Klamath Falls, Arrivals
 [ ] Set out SSW 88325 BHFlat MTY from Roseville -> Klamath Falls, Arrivals
 [ ] Set out SP 242530 Boxcar MTY from Roseville -> Klamath Falls, Arrivals
 [ ] Set out SSW 67363 Boxcar MTY from Roseville -> Klamath Falls, Arrivals
 [ ] Set out SP 242030 Boxcar MTY from Roseville -> Klamath Falls, Arrivals
Train departs Klamath Falls Eastbound with 10 loads, 8 empties, 1,321 feet, 1,907 tons

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File   Edit   Format   View   Help

Southern Pacific Klamath Falls Sub

Manifest for train (Gilchrist Turn) Klamath Falls to Gilchrist Junction Turn
Valid 3/31/1984 13:20

Scheduled work at Klamath Falls, departure time 12:00
  [ ]  Pick up SP 3384 GP9 from Klamath Falls Roundhouse
  [ ]  Pick up SP 3759 GP9 from Klamath Falls Roundhouse
  [ ]  Pick up SP 563948 Log Car MTY-Logs from Gilchrist Block
  [ ]  Pick up SP 354282 Gon MTY from Gilchrist Block
  [ ]  Pick up SSW 4730 Caboose from Caboose Track
Train departs Klamath Falls Eastbound with 1 loads, 2 empties, 276 feet, 427 tons

No work at Modoc Point
No work at Chiloquin
No work at Calimus
No work at Diamond Lake

Scheduled work at Gilchrist Junction, estimated arrival time 12:25
  [ ]  Pick up SSW 88325 BHFlat Lumber from SP Block
  [ ]  Pick up SP 564084 Log Car Logs from SP Block
  [ ]  Set out SP 563948 Log Car MTY-Logs from Klamath Falls
        -> Gilchrist Junction, Gilchrist Block
Train departs Gilchrist Junction Westbound with 2 loads, 2 empties, 340 feet, 529 tons

Scheduled work at Diamond Lake, estimated arrival time 12:45
  [ ]  Pick up MR 2243 Boxcar Lumber from Circle D Lumber Box
  [ ]  Pick up SP 242506 Boxcar Lumber from Circle D Lumber Box
  [ ]  Set out SP 354282 Gon MTY from Klamath Falls -> Diamond Lake, Circle D Chip
Train departs Diamond Lake Westbound with 4 loads, 1 empties, 385 feet, 675 tons

No work at Calimus
No work at Chiloquin
No work at Modoc Point

Scheduled work at Klamath Falls, estimated arrival time 13:20
  [ ]  Set out MR 2243 Boxcar Lumber from Diamond Lake -> Klamath Falls, Arrivals
  [ ]  Set out SP 242506 Boxcar Lumber from Diamond Lake -> Klamath Falls, Arrivals
  [ ]  Set out SSW 88325 BHFlat Lumber from Gilchrist Junction -> Klamath Falls, Arrivals
  [ ]  Set out SP 564084 Log Car Logs from Gilchrist Junction -> Klamath Falls, Arrivals
  [ ]  Set out SSW 4730 Caboose from Klamath Falls -> Klamath Falls, Caboose Track
  [ ]  Set out SP 3384 GP9 to Klamath Falls Roundhouse
  [ ]  Set out SP 3759 GP9 to Klamath Falls Roundhouse
Train terminates in Klamath Falls
```

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Now that we've seen examples of the program output, what steps are necessary to set up Operations?

- Settings
- Locations
- Cars
- Locomotives
- Routes
- Trains
- Schedules (optional)

Configuring Settings

Here we configure the global settings. We enter things like:

- Railroad Name

- Train direction

- Scale

- Global maximum values

- Car types

- Optional year modeled
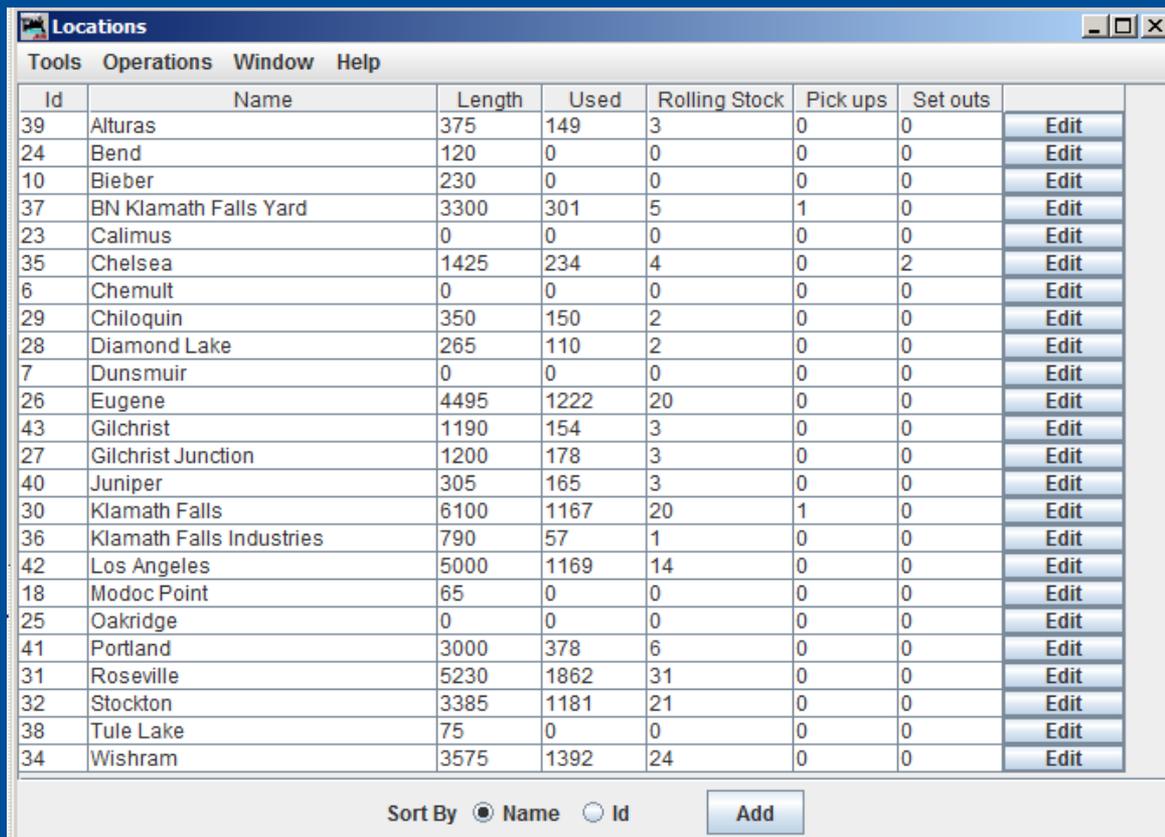
- Add operations to main menu

- Panel options

Adding Locations

Now we're ready to add some locations. Note that not all locations have to be on the layout.

Adding tracks

This is the Edit Location screen. It's where we start adding tracks to our locations, but before we start adding tracks we'll need an understanding of the different types of tracks.

Types of Tracks

The program has four types of tracks you can enter. They are Spurs, Yard, Classification / Interchange and Staging.

- Spurs are your basic industry tracks.

- Yard tracks are for car storage

- Classification / Interchange tracks are used by the program to move cars from one railroad to another or from one train to another within the same railroad and are the tracks use to set up a classification yard.

- Staging tracks are used to park trains prior to their appearing on the railroad or after a train has run.

Note that a location can have either staging or all other types of tracks but not both.

Spurs

Spurs are the industry tracks where freight cars are loaded and unloaded during the course of our operating sessions.

Staging Tracks

Here is the Add Staging Track screen. As you can see, you have a lot of options to configure the program to manage your car movements.

Adding Cars

This is the Edit Car window. Here you can input the:

- Road (reporting marks)
- Road number
- Car type and category
- Length
- Weight
- Location
- Color
- Load
- Kernel
- Year built
- Car owner

AAR vs. Descriptive Codes

One of the choices you were given in the Settings screen is whether to use AAR or Descriptive car types. Regardless of which type you choose you can add a modifier that will allow you to fine tune how the program assigns cars to various industry sidings. We'll talk about that in the next slide.

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Using the "-" function

The dash is an important component in Operations. When you enter or modify a car type, inserting a "-" (dash) followed by more text after the car type the program will use all the text in the car type to assign a particular car to an industry, but will only print out the text before the dash in the switchlists and manifests. Examples might be XM-1, XM-2 or XM-3; or Boxcar-1, Boxcar-2 or Boxcar-3.

UMLER codes

UMLER codes are a way to let the program know the difference between cars of the same general type. For example, Boxcar-BEN is a Standard boxcar (B) that is between 50 and 60 feet long with a cushioned under frame (E) and is a double door car. Boxcar-D5C is a DF (Damage Free) boxcar that is between 49 and 58 feet long and has a cushioned under frame.

UMLER Car Codes			NOTE: UMLER stand for Universal Machine Langauge Equipment Register								
Type of car	Sub-Type	First Digit	Second Digit				Third Digit				
			Inside Length	Standard	Cushioned	Capacity	Single Door Width				Double Door
							6 feet	8 feet	9 feet	10 feet +	
Boxcar	Standard	B	< 50 feet	4	D	< 70 Tons	A	D	G	J	M
			50 blt 60 ft	5	E	70 blt 90 T	B	E	H	K	N
			60 blt 70 ft	6	F	> 90 Tons	C	F	I	L	O
			> 70 ft	7	G						
Boxcar	DF	D	Inside Length								
			< 49 feet	4		Cushioned	C				
			49 blt 58 ft	5							
			58 blt 70 ft	6		Not Cushion	U				
			> 70 ft	7							
			All Door	A							
			Roof Hatch	H							
Boxcar	DF Insulated	I (eye)	Inside Length								
			< 49 feet	4		Cushioned	C				
			49 blt 58 ft	5							
			58 blt 70 ft	6		Not Cushion	U				
			> 70 ft	7							
Boxcar	Load Divider	L	Inside Length								
			< 52 feet	4		Side Filler	S				
			52 blt 58 ft	5		Air Pack	A				
			58 blt 70 ft	6		Other	O				
			> 70 ft	7							

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Adding Locomotives

This is the Add Locomotive screen. You can import the roster information from DecoderPro if you're already using JMRI or you can enter it manually. You can enter:

- Road
- Number
- Model
- Type
- Length
- Location and track
- Weight
- Horsepower
- If the unit is part of a consist
- Year built
- Owner

Note that many of these fields can be edited.

Routes

Tools   Window   Help

Name

STKWIS

Comment

BN Stockton to Wishram

Id	Location	Train Direction	Moves	Pick ups?	Set outs?	Wait	Max Length	Grade	X	Y	Comment	Up	Down	Delete
6r14	Stockton	North ▼	22	yes ▼	no ▼	0	1800	0.0	0	0	Add	Up	Down	Dele...
6r2	Bieber	North ▼	2	yes ▼	no ▼	0	1800	0.0	0	0	Add	Up	Down	Dele...
6r21	BN Klamath Falls Yard	North ▼	10	yes ▼	yes ▼	0	1800	0.0	0	0	Add	Up	Down	Dele...
6r16	Klamath Falls	North ▼	0	no ▼	no ▼	0	1800	0.0	0	0	Add	Up	Down	Dele...
6r8	Modoc Point	North ▼	0	no ▼	no ▼	0	1800	0.0	0	0	Add	Up	Down	Dele...
6r17	Chiloquin	North ▼	0	no ▼	no ▼	0	1800	0.0	0	0	Add	Up	Down	Dele...
6r10	Calimus	North ▼	0	no ▼	no ▼	0	1800	3.0	0	0	Add	Up	Down	Dele...
6r18	Diamond Lake	North ▼	0	no ▼	no ▼	0	1800	0.0	0	0	Add	Up	Down	Dele...
6r19	Gilchrist Junction	North ▼	10	yes ▼	yes ▼	0	1800	0.0	0	0	Add	Up	Down	Dele...
6r4	Chemult	North ▼	0	no ▼	no ▼	0	1800	0.0	0	0	Add	Up	Down	Dele...
6r13	Bend	North ▼	2	no ▼	yes ▼	0	1800	0.0	0	0	Add	Up	Down	Dele...
6r20	Wishram	North ▼	22	no ▼	yes ▼	0	1800	0.0	0	0	Add	Up	Down	Dele...

Location

[▼]   Add Location   ○ Add location at start   ● Add location at end

Display   ● Wait   ○ Departure Time

Delete Route   Add Route   Save Route

This is the Edit Route screen for my Stockton to Wishram route. As you can see it runs northbound from Stockton to Wishram and is the route used by BN train 170.

Trains

This is the add / edit train window. You'll enter in the:

- Name
- Description
- Departure time
- Route
- Car types
- Locomotive type
- Optional info
- Comments

Schedules

This is the Edit Schedule window. Here you can enter such data as:

- Name and comments
- Sequential or Match loads
- Type and road of car
- Receive and Ship
- Destination and track
- Count and Wait

Build Reports

Build reports are used for troubleshooting problems in building trains or if you find some of your cars are not moving. As an example if you find a car that is not moving search for that car to see why.
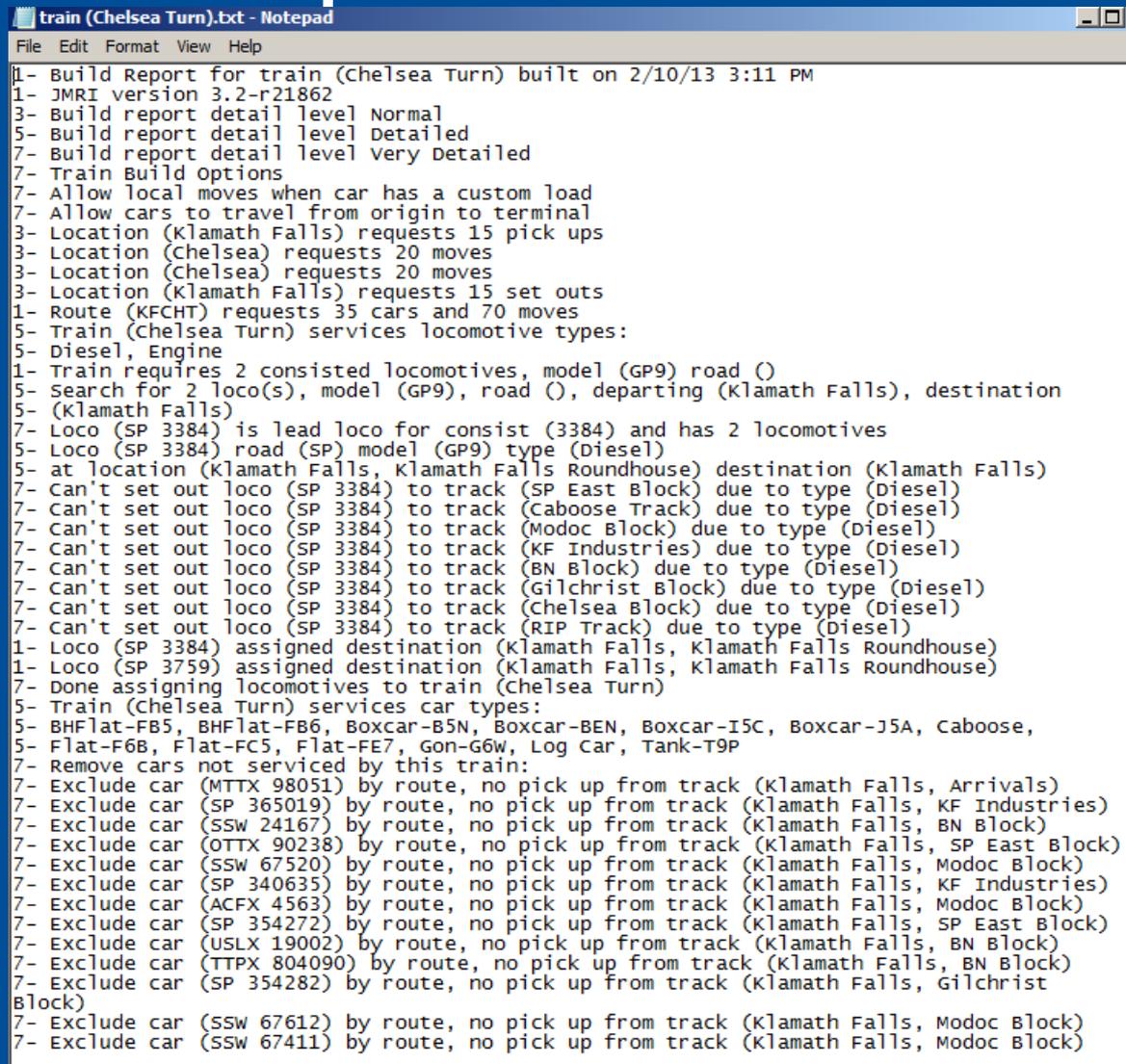
train (Chelsea Turn).txt - Notepad

File   Edit   Format   View   Help

```
1- Build Report for train (Chelsea Turn) built on 2/10/13 3:11 PM
1- JMRI version 3.2-r21862
3- Build report detail level Normal
5- Build report detail level Detailed
7- Build report detail level Very Detailed
7- Train Build Options
7- Allow local moves when car has a custom load
7- Allow cars to travel from origin to terminal
3- Location (Klamath Falls) requests 15 pick ups
3- Location (Chelsea) requests 20 moves
3- Location (Chelsea) requests 20 moves
3- Location (Klamath Falls) requests 15 set outs
1- Route (KFCHT) requests 35 cars and 70 moves
5- Train (Chelsea Turn) services locomotive types:
5- Diesel, Engine
1- Train requires 2 consisted locomotives, model (GP9) road ()
5- Search for 2 loco(s), model (GP9), road (), departing (Klamath Falls), destination
5- (Klamath Falls)
7- Loco (SP 3384) is lead loco for consist (3384) and has 2 locomotives
5- Loco (SP 3384) road (SP) model (GP9) type (Diesel)
5- at location (Klamath Falls, Klamath Falls Roundhouse) destination (Klamath Falls)
7- Can't set out loco (SP 3384) to track (SP East Block) due to type (Diesel)
7- Can't set out loco (SP 3384) to track (Caboose Track) due to type (Diesel)
7- Can't set out loco (SP 3384) to track (Modoc Block) due to type (Diesel)
7- Can't set out loco (SP 3384) to track (KF Industries) due to type (Diesel)
7- Can't set out loco (SP 3384) to track (BN Block) due to type (Diesel)
7- Can't set out loco (SP 3384) to track (Gilchrist Block) due to type (Diesel)
7- Can't set out loco (SP 3384) to track (Chelsea Block) due to type (Diesel)
7- Can't set out loco (SP 3384) to track (RIP Track) due to type (Diesel)
1- Loco (SP 3384) assigned destination (Klamath Falls, Klamath Falls Roundhouse)
1- Loco (SP 3759) assigned destination (Klamath Falls, Klamath Falls Roundhouse)
7- Done assigning locomotives to train (Chelsea Turn)
5- Train (Chelsea Turn) services car types:
5- BHFlat-FB5, BHFlat-FB6, Boxcar-B5N, Boxcar-BEN, Boxcar-I5C, Boxcar-J5A, Caboose,
5- Flat-F6B, Flat-FC5, Flat-FE7, Gon-G6W, Log Car, Tank-T9P
7- Remove cars not serviced by this train:
7- Exclude car (MTTX 98051) by route, no pick up from track (Klamath Falls, Arrivals)
7- Exclude car (SP 365019) by route, no pick up from track (Klamath Falls, KF Industries)
7- Exclude car (SSW 24167) by route, no pick up from track (Klamath Falls, BN Block)
7- Exclude car (OTTX 90238) by route, no pick up from track (Klamath Falls, SP East Block)
7- Exclude car (SSW 67520) by route, no pick up from track (Klamath Falls, Modoc Block)
7- Exclude car (SP 340635) by route, no pick up from track (Klamath Falls, KF Industries)
7- Exclude car (ACFX 4563) by route, no pick up from track (Klamath Falls, Modoc Block)
7- Exclude car (SP 354272) by route, no pick up from track (Klamath Falls, SP East Block)
7- Exclude car (USLX 19002) by route, no pick up from track (Klamath Falls, BN Block)
7- Exclude car (TTPX 804090) by route, no pick up from track (Klamath Falls, BN Block)
7- Exclude car (SP 354282) by route, no pick up from track (Klamath Falls, Gilchrist
Block)
7- Exclude car (SSW 67612) by route, no pick up from track (Klamath Falls, Modoc Block)
7- Exclude car (SSW 67411) by route, no pick up from track (Klamath Falls, Modoc Block)
```

Trains Window

JMRI Operations

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Car Report

Cars

Tools Operations Window Help

Number	Road	Type	Len	Load	Kernel	Location	Destination	Train	Moves	Set	Edit
11360	UTLX	Tank-T4SA (H)	39	Acid		Klamath Falls (BN Block)	->Wishram (Monsanto)		19	Set	Edit
3036	CALX	Tank-T6AS (H)	53	Asphalt		Oakridge ()	Eugene (Trumball Asphalt Spot 3)->Roseville	SP RVEUY	17	Set	Edit
3042	CALX	Tank-T6AS (H)	53	Asphalt		Oakridge ()	Eugene (Trumball Asphalt Spot 2)->Roseville	SP RVEUY	19	Set	Edit
14240	MOBX	Tank-T6AS (H)	53	Asphalt		Bieber ()	Stockton (EOTT Energy)->Wishram (Chevron Canada)	BN 171	13	Set	Edit
455874	BN	HopGrain-C4T	55	Barley		Bieber ()	Stockton (Great Western BN Barley-4)->Wishram	BN 171	12	Set	Edit
455958	BN	HopGrain-C4T	55	Barley		Bieber ()	Stockton (Great Western BN Barley-5)->Wishram	BN 171	12	Set	Edit
66173	WP	Boxcar-J6O	63	Beer		Bend ()	Wishram (Hagerman Distributing-2)->Stockton	BN 170	12	Set	Edit
819780	MP	Flat-F6B	61	Bridge Beams		Bend ()	Wishram (Mopac Spur)->Stockton (Mopac Spur)	BN 170	12	Set	Edit
24167	SSW	Boxcar-J4A	51	Canned Food		BN Klamath Falls Yard ()	BN Klamath Falls Yard (North Block)->Wishram (Sigmans Food)	BN Transfer	14	Set	Edit
699723	SP	Boxcar-J4A	51	Canned Food		Oakridge ()	Eugene (Safeway-1)->Roseville	SP RVEUY	12	Set	Edit
48235	SSW	Boxcar-D5C	51	Canned Food		Oakridge ()	Eugene (Safeway-4)->Roseville (Salinas Canning)	SP RVEUY	12	Set	Edit
178685	ATSF	HopCoal-H4I	42	Coal		Bend ()	Wishram (Univ Washington)->Stockton	BN 170	12	Set	Edit
178403	ATSF	HopCoal-H4I	42	Coal		Bend ()	Wishram (Univ Eastern Washington)->Stockton	BN 170	12	Set	Edit
10327	UOCX	Tank-T2D (H)	41	Diesel		Klamath Falls (BN Block)	->Bend (Bend Diesel Shop)		21	Set	Edit
630833	BN	Flat-FC5	60	Farm Equip		Bend ()	Wishram (Polson Implement)->Stockton (New Holland)	BN 170	12	Set	Edit
12187	ATSF	Boxcar-BEA	52	Feed		Bend ()	Wishram (Graham & Ross)->Stockton	BN 170	13	Set	Edit
453318	PFE	Reefer-R6P	59	Frozen Food (P)		Oakridge ()	Eugene (Carriage House-1)->Roseville	SP RVEUY	19	Set	Edit
43428	SOU	Boxcar-L6O	62	Furniture		Klamath Falls (BN Block)	->Bend (Healy's Furniture)		16	Set	Edit
71901	ACFX	Tank-T4K	42	Kaolin		Oakridge ()	Eugene (Zellerbach Kaolin)->Roseville (Englehard Kaolin)	SP RVEUY	12	Set	Edit
564084-2	SP	Log Car	44	Logs (P)		Klamath Falls (Chelsea Block)	->Chelsea (Log Unloading-1)		21	Set	Edit
564053-2	SP	Log Car	44	MTY-Logs (P)		Chelsea (Log Unloading-1)	->Gilchrist		21	Set	Edit
564084-1	SP	Log Car	44	Logs (P)		Klamath Falls (Chelsea Block)	->Chelsea (Log Unloading-1)		22	Set	Edit
81780	TTPX	BHFlat-FB5	60	Lumber		Dunsmuir ()	Roseville (TTPX)->Chelsea	SP EURVY	17	Set	Edit
51053	ABOX	Boxcar-B5N	51	Lumber		Klamath Falls (Arrivals)	->Stockton (ABOX Lumber)		18	Set	Edit
90297	TTPX	BHFlat-FB5	62	Lumber		Klamath Falls (Arrivals)	->Roseville		2	Set	Edit
2243	MR	Boxcar-BEN	51	Lumber		Dunsmuir ()	Roseville (Lumber Roller Box-8)->Chelsea	SP EURVY	18	Set	Edit
242506	SP	Boxcar-BEN	51	Lumber		Dunsmuir ()	Roseville (Lumber Roller Box-7)->Chelsea	SP EURVY	18	Set	Edit
87817	SSW	BHFlat-FB5	60	Lumber		Dunsmuir ()	Roseville (Lumber Roller BHFlat-4)->Chelsea	SP EURVY	18	Set	Edit
67739	SSW	Boxcar-BEN	51	Lumber		Dunsmuir ()	Roseville (Lumber Roller Box-6)->Eugene	SP EURVY	18	Set	Edit
599378	SP	Flat-F6B	61	Lumber		Dunsmuir ()	Roseville (Burns Lumber-2)->Eugene	SP EURVY	15	Set	Edit
88325	SSW	BHFlat-FB5	60	Lumber		Dunsmuir ()	Roseville (Lumber Roller BHFlat-2)->Eugene	SP EURVY	19	Set	Edit
67612	SSW	Boxcar-BEN	51	Lumber		Klamath Falls (Arrivals)	->Roseville		22	Set	Edit
67411	SSW	Boxcar-BEN	51	Lumber		Klamath Falls (Arrivals)	->Roseville		22	Set	Edit
67520	SSW	Boxcar-BEN	51	Lumber		Klamath Falls (Arrivals)	->Roseville		17	Set	Edit
67363	SSW	Boxcar-BEN	51	Lumber		Dunsmuir ()	Roseville (Lumber Roller Box-10)->Diamond Lake	SP EURVY	26	Set	Edit

Sort by

○ Number ○ Road ○ Type ○ Color ● Load ○ Kernel ○ Location ○ Destination ○ FD ○ RWE ○ Train ○ Moves ○ Built ○ Owner ○ Wait

132 cars   [Add]   [Save]   [Find]   [_____]

Questions

If you have any questions please feel free to contact me directly at cowrr1984@gmail.com

In addition you can join the JMRI Users Yahoo group at:

http://groups.yahoo.com/group/jmriusers/

Or come see me after the clinic.

Thanks, Dennis Drury