

D&RGW Scenic Line Operations (Standard & Narrow Gauge)



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Lockheed Martin Railroad Club



OPERATIONS DESIGN

What are Operations?



Operations are basically running trains on the layout.

For most of us, 'Operations' consisted of running trains in a continuous loop at some time during our model railroading, and still may be the case.



As with prototype models, 'Operations' has evolved into running trains as an actual railroad operated.

Operating sessions can take any form in between both ends of the spectrum.

Operation Definitions



- For the purposes of illustration, Operating Sessions will be as defined as used and planned by the Lockheed Martin Railroad Club: the Scenic Line Modelers.
- Definitions:
 - SG: Standard Gauge (4' 8 ½")
 - NG: Narrow Gauge (3')
 - DG: Dual Gauge (three rail an extra rail offset from one SG rail at 3')
- Layout operations are determined by:
 - Layout design
 - Track plan
 - Industry Agriculture Cities Towns Terrain
 - Locomotives & Rolling Stock
 - Operators desires
- When designing a layout, all of these things should be considered to optimize your level of operating with the trains you want to run.

Layout Design



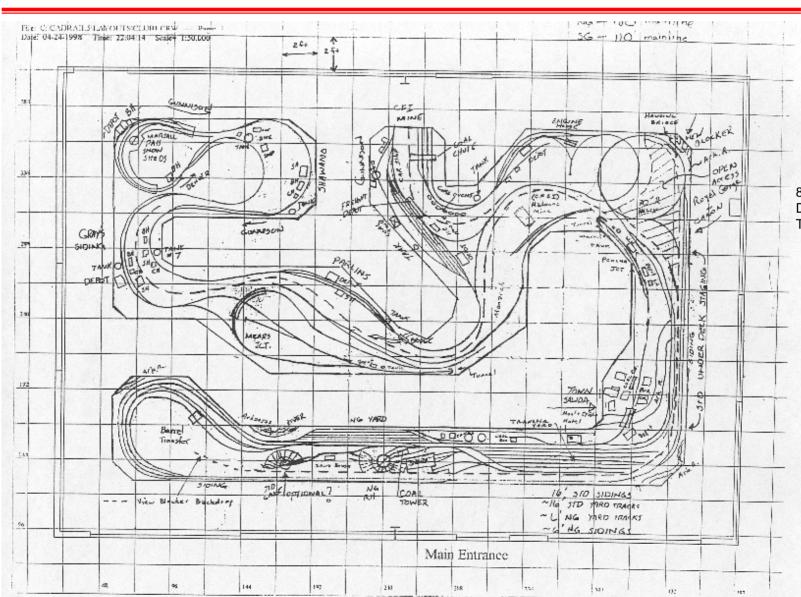
- In the fall of 1997, our club was vandalized and our modules severely damaged. Since the modules began life before we had a clubhouse, we decided to build a new permanent layout.
- We decided we wanted to do a prototype Colorado narrow gauge railroad, challenging to all our skills
- Layout Design Format:
 - We wanted a portion of the layout to still include Standard Gauge
 - The preferred narrow gauge was D&RGW
 - Design for prototypical peak NG operations
- Layout Design Rules:
 - No duck-unders
 - No exit constraints (No Fire code violations)
 - No Dispatcher requirement (thought unnecessary)
 - Operations of trains would be with use of DCC, therefore, trains were to be operated with walk-around capability of Engineer for each train
 - Single decked

Layout Research Dividends



- Approx 1 year of planning was spent at the CRRM library, books, DVDs, magazines, maps, timetables
- Resulting Design Features:
 - 2/3 Narrow Gauge Operations & ~1/3 SG
 - NG: Salida Gunnison over Marshall Pass with Branch lines to Crested Butte & Monarch
 - Mears Jct A rare real life crossing of NG over NG
 - Crested Butte Coke ovens and supplied Anthracite to Pueblo via Barrel Transfer (Salida)
 - Gunnison valley produce, livestock
 - Monarch switch backs, limestone to Pueblo via Barrel Transfer
 - Marshall Pass snow sheds
 - SG: Salida to Royal Gorge
 - Dual gauge operations Freight transfer/Barrel Transfer
 - SG & NG Passenger
 - Royal Gorge Hanging Bridge
 - Tennessee Pass Portal to helix & staging
 - Helix Bypass allows for optional circular loop nonstop running during informal operating

Original Drawing - slightly modified

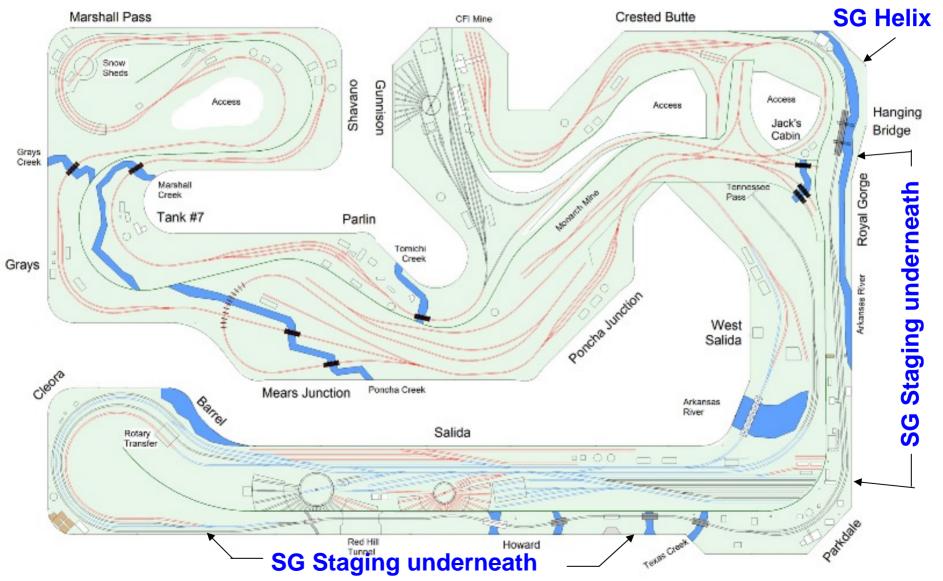


8.5 x 11 paper Drawn by Tom George

All benchwork was designed from this

Current Layout Design





Operations Design



- The Layout was designed to model a specific era, late 1920s, arguably the peak of NG & SG passenger traffic through Salida
- The Layout was designed for the Engineer to walk around with his train, and manipulate turnouts (by toggle switch)
 - Rio Grande single track mainline (through the Mtns)
 - No Dispatcher needed (?)
 - Trains need run off Time-Tables
 - Era ran Telegraphone (Station to Station) before acquiring radio equipped cabooses in the 40s
 - First CTC signal usage at Tennessee Pass in 1928
- The locomotives, rolling stock, structures, scenery, and track were all modeled off the prototype, so it makes sense to model the Operations from ther prototype as well.
- Limiting layout to a single era has many drawbacks
- Rio Grande changed significantly though the years
 - With some compromises, great opportunities abound
 - Changing eras with operations allowed for variations of models to be duplicated between club members of the identical locomotive or rolling stock



Denver & Rio Grande History

Denver & Rio Grande Heralds



- 1887
 - Denver & Rio Grande RR
 - First Herald adopted 6/87
- 1922
 - The Denver & Rio Grande Western, merged from the D&RGRR and Rio Grande Western
 - Western replaces R.R. on herald
 - Used only 4 years
- 1926
 - Shift Emphasis to SG Main Line
 - New Herald adopted 7/23/26
 - Tri-Color, middle circle blue
 - Voided 8/27/36

Denver & Rio Grande Heralds (cont)



- 1934
 - Completion of the Dotsero Cutoff
- 1936
 - Revised Herald
 - TM 24 June 1936
 - White center
 - Not used after 1945
- 1939
 - New Herald intended for Headset Covers of passenger coach seats
 - Flying Rio Grande

Denver & Rio Grande Heralds (cont)



- 1948
 - New Herald Mainline through the Rockies
- 1965
 - The Final Herald
 - Emphasis on Action
 - "Railroad" later changed to "Road"

Grande Passenger Trains (1926-1955)



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1/2	Scenic Limited	Denver – Salt Lake/Ogden	1906 – Jun 46
1/2	Royal Gorge	Denver – Salt Lake/Ogden	1946 - 1967
3/4	SL-SF Express /	Denver – San Francisco	1921 - 1926
	Denver & Eastern Ex		
3/4	Westerner (Seasonal)	Denver – Ogden	1926 – 1931
		Denver – Pueblo	1932 - 1942
7/8	Panoramic (Seasonal)	Denver – Salt Lake/Ogden	1924 – 1931
15 /16	CO & New Mexico Ex	Denver – Grand Jct	1892 – 1936
		Denver – Glenwood Springs	1936 – 1951

JAMES PEAK ROUTE

2nd #1Denver – Ogden2nd #4Ogden - Denver19 /20 MountaineerDenver – Montrose7 / 8 PanoramicDenver – Ogden

1935-1936

Grande Passenger Trains (1926-1955)



MOFFATT TUNNEL ROUTE

7/8	Panoramic	Denver – Ogden	1937 -1939
7 /8	Prospector-Budd Cars	Denver – Ogden	1942
7 /8	Prospector	Denver – Ogden	1947 - 1951
9/10	Yampa Valley/Mail	Denver – Craig	1954 – 1968
	Exposition Flyer	Denver – Salt Lake	1939 – 1949
17/18	California Zephyr	Chicago – Oakland	Mar 49 - Mar 70
17 /18	Rio Grande Zephyr	Denver – Ogden	1970 - 1983
19 /20) Mountaineer	Denver – Montrose	1927 - 1959

Grande NG Passenger Trains (1926-1955)

MARSHALL PASS ROUTE

315 / 316	-	Salida – Gunnison	1897 -1937
315 / 316	Shavano	Salida – Gunnison	1937 -1940

Colorado-New Mexico ROUTE

215 / 216	-	Alamosa- Durango	1897 -1937
215 / 216	San Juan	Alamosa- Durango	1937 -1951



- 1926
 - The Railroad reorganized, recently reclassified, rebuilt, repainted, and Limited SG rolling stock
 - MDC, Sunshine, Westerfield, & Accurail
 - Truss rods, arch bar trucks, KC brake gear
 - D&RGW MOW equipment painted Oxide red
 - Passenger traffic at a peak through Salida with both SG & NG
 - Pullman green Heavyweights
 - NG open vestibule coaches
 - The McMyler Mechanical or "Barrel" Transfer is designed and built and opens in the fall (Salida)
 - Previously gondola loads transferred by hand
 - D&RGW is jointly owned by the Western Pacific and Missouri Pacific
 - D&RGW Lounge-Observation Car Glenwood Canon
- 1927
 - All Steel, 36 Seat Dining Cars: Pikes Peak, Castle Peak, Sopris Peak & Twin Peak



- 1928
 - First 5 K-37s arrive (490-494), take over Monarch freight duty
 - D&RGW Lounge-Observation Car Ogden Canon
- 1929
 - Big Steam Passenger Locomotives 1700-1713
 - D&RGW Lounge-Observation Cars Spanish Fork Canon & Granite Canon
- 1930
 - The Depression hits, but the RR is still going, many out of work, passenger traffic declines
 - Second 5 K-37s arrive (495-499)
- 1932
 - Large steam M-64 4-8-4 and L-131 2-8-8-2
- 1934
 - Dotsero Cutoff Opened
 - Air conditioning began being added to Passenger Cars



- 1935
 - SG coaches, Pullman sleepers, Dining Cars and loungeobservations had A/C
 - Scenic Limited, Panoramic, and Westerner.
 - 14 NG Locomotives shopped with Electric Pyle Lights
 - 38 NG Passenger cars shopped with steam heat, electric lights, & vestibuled ends.
 - NG Coaches received modern upholstered reclining seats
 - Dinette Parlor Cars upgraded with 4 seat dining sections & galleys
 - Alamosa, Chama & Durango



- 1936
 - New Herald goes onto Rebuilds, some equipment, many locomotives
 - Wilson B. McCarthy begins reorganizing and rebuilding the Grande some time in the late 30s
- Late 1930s
 - Gunnison Depot replaced with Brick/Stucco Building
 - SG Mikados were modified from two to one sand dome
- 1937
 - NG Parlor Cars Received Electric Lit Drumheads
- 1939
 - Archbar trucks, truss rods, KC brakes outlawed on interchanging SG cars
 - Steel underframe cabooses introduced
 - Flying Rio Grande Herald introduced and applied on locomotives and rolling stock
 - Several heralds continue on rolling stock & locos from this point
 - Four of the K-27s with slide valves scrapped
 - Glenwood Canon Lounge-Observation Open Platform enclosed to form a Solarium car



- 1940
 - Class 23 42' NG Flat Cars (6500-6544) from SG Flats
- 1942 WWII
 - First FTs appear on the D&RGW, Black & Yellow Livery w/ Blk Nose
- 1943(?)
 - Troop trains
 - Moffatt had a collapse and for several months trains were routed thru Salida
 - Walthers comes to mind!
 - L-105 Challengers (although delegated to desert duty)
- 1946 (late)
 - First F3s in Black & Yellow, w/Yellow Nose
- Late 1940s
 - A few 40' NG reefers get ART Orange paint
 - D&RGW finally begin to paint (most) MOW gray (after "45)

Scenic Line

- 1949
 - F5s and F7s in Black & Yellow Livery w/ Yellow Nose
 - Prospector Luxury Train
 - Acquired C&O cars for the Prospector & Royal Gorge, including 3 dome cars (slanted window frames)
- 1950
 - Grande Gold & Silver replaces Black & Yellow Livery
 - 4 Stripe
 - F7s, PA/PBs
- 1951
 - NG Pipe Gondolas
- 1955
 - Last year for NG, track torn up, Monarch is Standard Gauged
 - F9s, GP-9s, RS-3s, SD-7s
- 1956 End of Steam
- 1961 Grande Gold with Single Stripe



Scenic Line Club Operations

ACCOMODATIONS

Prototype Operations (1926-1955)



- Our club, in general, shares equipment from the members at large to perform operating sessions
 - This leads to the requirement to design operations to account for varying equipment between Operating sessions
- As club members acquire more and more equipment, many overlaps occur, but can be accommodated by modeling for different times
 - Case in point: of the 15 K-27s, club members have already, or have on order 11.
 - Cabooses, passenger cars, reefers, MOW, and flats also limited.
 - Club Member desires range across a broad spectrum and the difficulty of maintaining a narrow focus on a specific prototype day, month, year, or decade(!) can be detrimental to
- Operations can be modeled by advancing in time a year or more between sessions
 - A few pieces or types of equipment can be replaced or retired
 - Some Equipment get new assignments
 - Occasionally some structural changes, new depots, diesel facilities, etc.
 - Enables the operators use of more equipment and changing of the Grande for 30 years

Layout Modification Requirements



- 1926
 - General era of initial design, scenicking, track, structures
- 1938(?)
 - Remove Salida's Monte Cristo Hotel (which burnt down and became site of Art Deco modern Depot)
 - Remove Original Gunnison Depot with Brick/Stucco Modern Depot
 - New Depot down the track from the original, but not enough room
- 1939
 - Remove original Salida Stone Depot
 - Add Art Deco Depot
 - Remove NG Roundhouse & TT (Not Doable)
 - SG Roundhouse already includes NG stalls
 - Remove Salida Coaling Station
 - Add Coal Conveyor which used coal from flat bottom NG cars to load SG tenders
- 1942-3
 - Add Diesel Fuel Tank next to Water Tanks
 - Add Diesel Facilities
 - Add a few contemporary automobiles time-to-time

Layout Design Operation Requirements



- EB & WB SG Trains through Royal Gorge through Salida in & out of Staging
- NG Trains interchange w/ SG on DG Salida track
- EB & WB NG Trains built up in Salida/Gunnison, run point to point, over Marshall Pass
- NG trains run Monarch & Crested Butte branchlines

Staging - Pueblo/Grand Junction



- Out of view area to place trains
- Trains are stored until needed to run
- Our staging "deck", below the main standard gauge peninsula, utilizes a helix for access
- The staging deck features a reverse loop at each end (one is actually at the top of the helix)
 - The reverse loop is required for exiting the staging deck on our single main line
 - Eventually we will add some limited scenery, false fronts of Pueblo & Grand Junction Depots, although the entire deck is both and no end need be designated



Pueblo Depot from trackside

Staging





Eventually, wires suspended above tracks will have a sign hanging by a hook above each engine with its Train No.

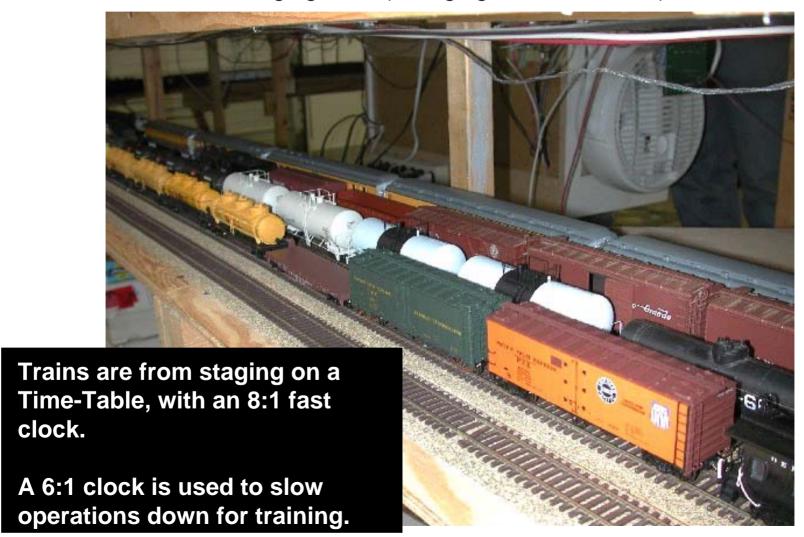
Operators will be able to locate their train and know where to return it during Ops

Outside track is the mainline

Staging



3-5 trains on each staging track (4 staging tracks + 1 main)



Stacked Helix



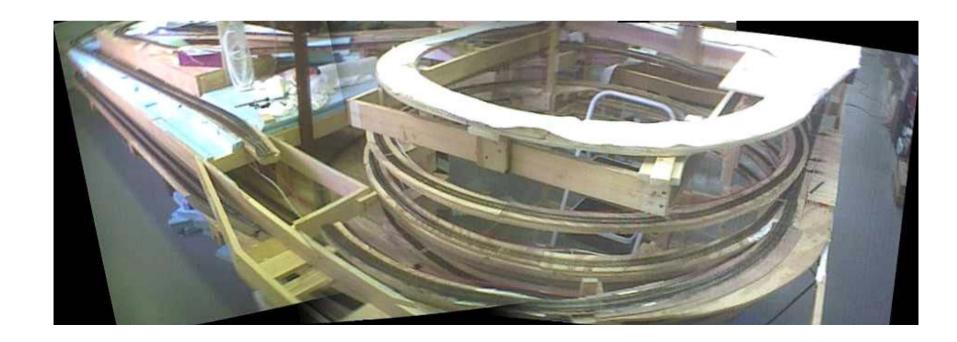
Four Loops from staging up to Royal Gorge

Required Reverse Loop under Gunnison)

Extra height required on staging deck for reaching and loading equipment

Two more Loops to Tennessee Pass

One Loop (stacked) from Gunnison to Crested Butte



Passing Sidings





Not always aesthetically pleasing, but necessary

Generally, long passenger trains will determine SG sidings

Passing sidings

Arkansas River

Royal Gorge

Passing Sidings



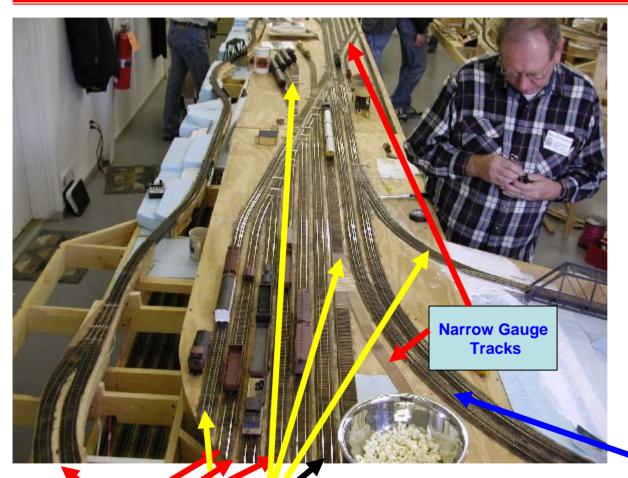


Since the D&RGW had a single main, we wanted to run trains that way, and the few spots that had sidings would.

Here is the Parkdale siding, with the depot at the corner.

Salida SG & NG Yard Operations





Salida yards were designed to be close to prototype **Compromises:**

Stub end transfer yard
Shorten distance between
roundhouses
Narrow width ofpeninsula
eliminated some
foreground storage tracks
Mainline turned along with
NG (instead of running
straight out of picture)

Standard Gauge Tracks

Dual Gauge Tracks Popcorn bowl serves
As temporary NG/SG
Freight transfer platform

Standard Gauge Mainlines (2)

Passenger SG & NG Operations





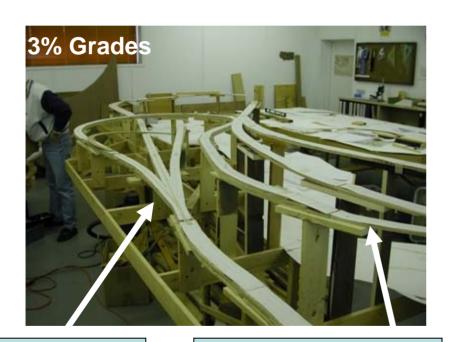
Here with a temporary depot, a SG passenger arrives in Salida (the Royal Gorge). In earlier years, the Shavano NG passenger waited upon the SG Scenic Limited from Denver, on the track leading across the Arkansas.

We will build the original stone depot for use up through around 1940, after which it will be replaced with a model of the modern art deco depot, which will be exchanged in place for where previously sat the Monte Cristo Hotel (also to be built).

Mears Junction NG Operations



Mear's Jct was flipped into a "Mirror" image, to be essentially Mirrors Jct



Mears Jct

Garfield Switchback (Monarch Branch)

Operations:

Side track for earlier Hotel
Use for Alamosa 'Staging'
Storage Track
Mainline and Monarch branch line
Jct
Water Tank stop

"Mirror-Image" Advantages:

Gained significant altitude for Monarch Branch Increased operational use of Trestle

"Mirror-Image" Disadvantages:

'Opposite' prototype in track layout Monarch trains never used Trestle

Monarch Branch NG Operations



Limestone from C&FI Mine at Monarch, brought down by hi-side gondolas, to Barrel Transfer at Salida

K-37 at switchback

Train is split in 2:
Header + ½ train goes
up switchback, Pusher
brings up 2nd ½ and
Caboose

Switchback tail length determines train length



Prototype Monarch Operations



- Two Crew Shift: Two Trains per day
 - Each Train hauled 28 empties from Salida
 - 11-12 hour shift"work and turn"trip
- One Crew Shift: 3x/Week
 - 56 empty gons from Salida to Maysville
 - 28 set out on Maysville siding
 - 28 to Monarch
- Shift Work
 - At Garfield, the train split in half traversed the switchback, then recoupled above.
 - At Monarch, the rear locomotive (helper) & caboose were cut.
 - The head-end locomotive pushed the 28 empties under the Colorado Fuel & Iron (CF&I) limestone loading tipple
 - The Helper put the caboose on the 10 cars on the "drop-in" storage track, rode around the wye, then went down to the switchback to wait for the train.
 - The head-end turned on the wye, put 22 loaded cars on the train
 - At the switchback, 10 cars were cut-off for the helper



Garfield Switchback



Silver Creek Tank

(8) Empties

Switchback tails Hold Loco+5 cars

2 Locos + 8 Gons + Caboose

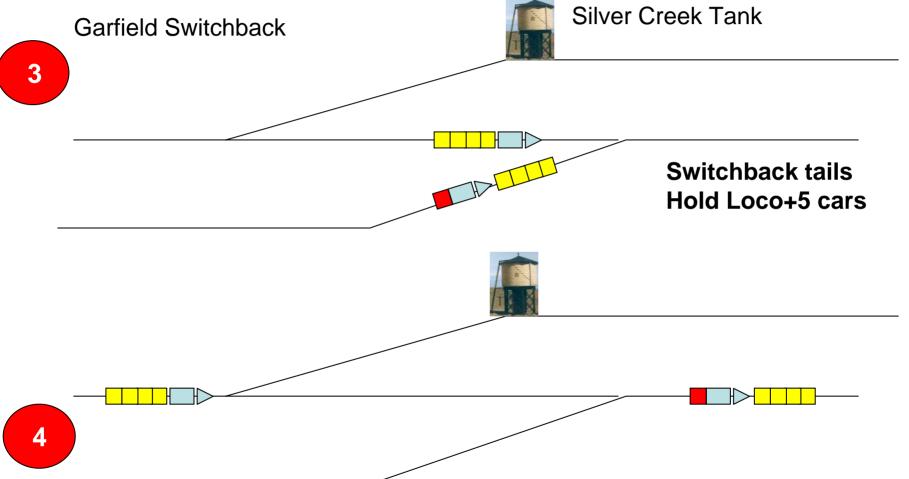


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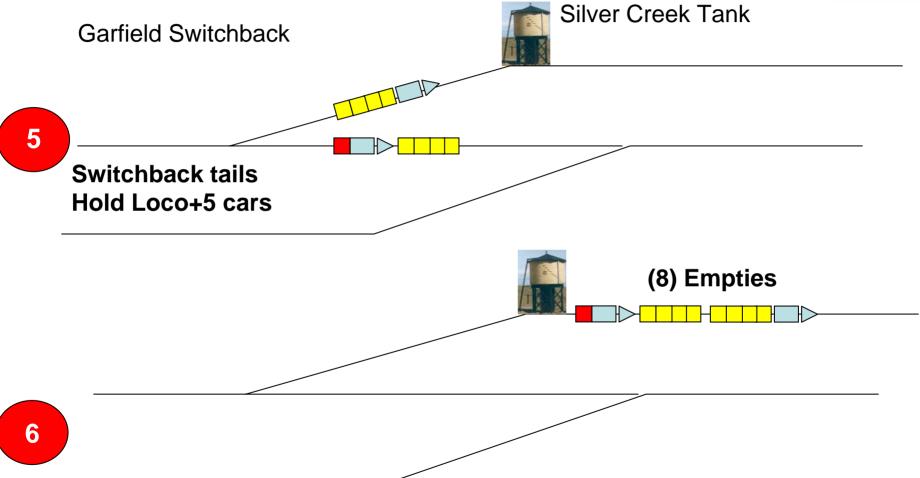
(4) Empties

(4) Empties + Caboose

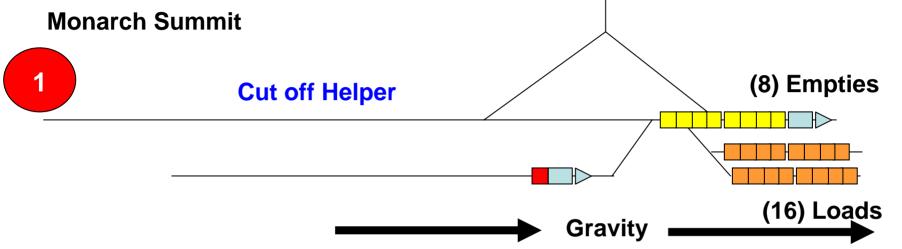


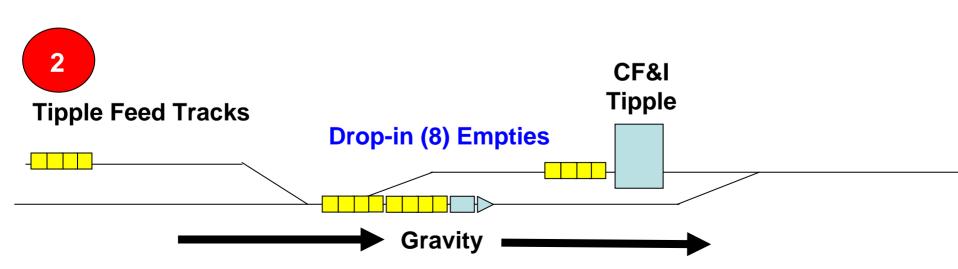








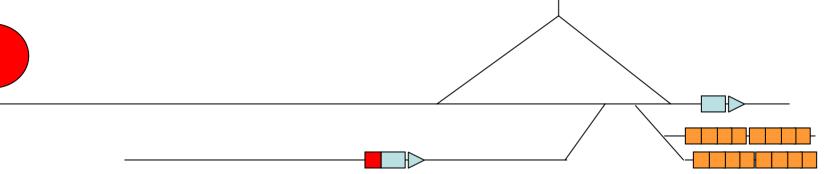








3



Turn Road Locomotive (Head-End)

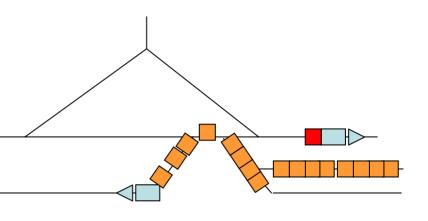
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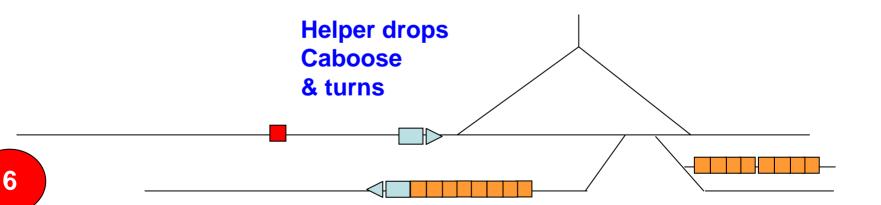


Monarch Summit

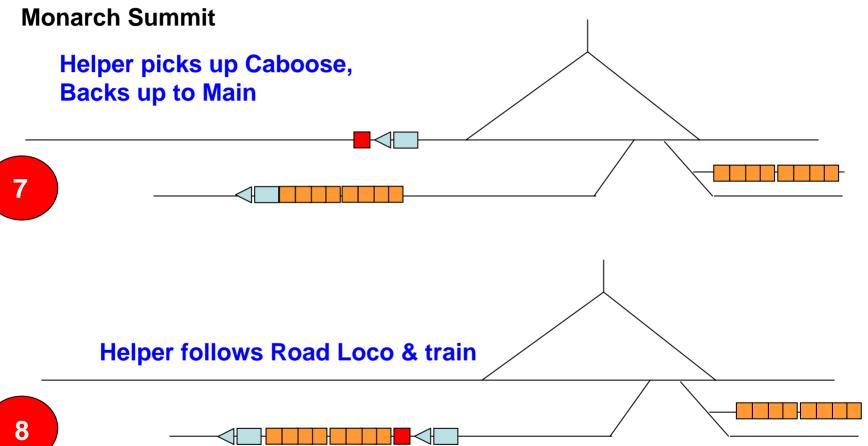
Road Locomotive picks up (8) Loads

F









Train splits in half again at Garfield Switchback
Afterwards, Helper runs light & follows Road Loco & train to Salida

Car Cards/Waybills (CCWBs) Usage



- Car Cards are made for each freight car (or group of cars permanently lashed together)
- Waybills are inserted in car card to indicate revenue shipment, routing, shipper & buyer
- The car cards/waybills (CCWBs) are gathered into a deck to make a 'train', starting with the first car behind the engine (in order) to the last car.
- The CCWBs are kept track of & in order by the Conductor
 - The Conductor will determine what cars are pulled out of the train at each stop in accordance with Train Orders
 - Train Orders are generally specific instructions and guidelines provided for each train upon dispatch
 - The Yard Master will instruct where cars are to be delivered, and indicate cars to be picked up.
- The Brakeman/Conductor will operate the turnouts for the Engineer who will operate the Train, and deploy Flagmen as required.
 - The Conductor is responsible for keeping track of the Time Table of the Train and other trains (getting clear of the Mainline)
 - The Engineer will perform switching duty as needed, while the Brakeman/Conductor helps with the actual uncoupling of rolling stock.

Car Cards



MicroMark Car Cards

Colored initials for individuals' cars

KIND AAR R.R./No. DESC.	R.R./NoDESC	R.R./No. DERGW 46193 DESC. 40' Drop Bottom
EMPTY CAR RETURN TO:	EMPTY CAR RETURN TO:	EMPTY CAR RETURN TO: Salida, Co
Rearder Micro-Mark #82910	Peorder Micro-Mark #52910	Reorder Micro-Mark #82910
(1) Cai	Card for every Car or te	ethered set of cars

Laminated with packing tape to protect

Waybills



MicroMark Car Cards

FREIGHT	WAYBILL 1
CONSIGNEE	
ADDRESS	
ROUTING	
VIA	
SHIPPER	
ADDRESS	
LADING	1
Reorder M	DING
	VDDRESS
	ЯЗААП
	V
	DUTTNG
	VDDKESS
	ONSIGNEE

CONSIGNEE	WAYBILL 3
ADDRESS	
ROUTING	
VIA	
SHIPPER	
ADDRESS	
LADING	
Pworder Mor	ONIGE TO STAN AND STA
	VDDRESS
	SHIPPER
	AIV
X	ROUTING
	ADDRESS
	CONSIGNEE

One Waybill has 4 destinations (2 on each side)
Every loaded car (or set) needs a waybill for shipping

CarCard/Waybill (CCWB)



KIND FLAT GM

R.R./No. D&RGW 22315

DESC. 40' Fish Belly

FREIGHT WAYBILL 2

CONSIGNEE

ADDRESS

FREIGHT WAYBILL 2

CONSIGNEE

ADDRESS

ROUTING GRAND JGT., CO

VIA Tennessee Pass

SHIPPER

ADDRESS

LADING

R.R./No. D&RGW 22310
DESC. HO' FISH BELLT
FREIGHT WAYBILL 2

CONSIGNEE CF & I

ADDRESS Monarch, CO

ROUTING SALIDA - BARREL

VIA Mechanica / Transfer

SHIPPER Public Steel CF & I

ADDRESS Public, CO

LADING Emply

KIND GON AM R.R./No. DERCW 1527 DESC. 40'

FREIGHT WAYBILL 2

CONSIGNEE CFGI

ADDRESS MONACCA, CO

ROUTING SALIDA BASEOU

VIA Mechanical Transfer

SHIPPER Pueblo Steel CFGI

ADDRESS Pueblo, CO

LADING Compty

Selected Waybill destination shown protruding from pocket Key Info to Operator: Route, Destination & Drop Point Highlighting Routing can aid Conductor when sorting his train

CCWBs – Routing Color Codes



R.R./No. TP4W 921 DESC. 40' Fish belly	R.R./No. DARGW 21047 DESC. 42' Fish Bally	R.R./No. Derew 22316 DESC. 40' Fish Only
FREIGHT WAYBILL 1 CONSIGNEE ADDRESS ROUTING SALIDA VIA SHIPPER ADDRESS LADING Hvy Pulleys, Gear	FREIGHT WAYBILL 4 CONSIGNEE ADDRESS ROUTING GRAND JCT VIA SHIPPER ADDRESS LADING LADING	FREIGHT WAYBILL 2 CONSIGNEE ADDRESS ROUTING VIA SHIPPER ADDRESS LADING
Drop-Off	West-Bound through	East-Bound through

CCWB Examples



KIND GON FLAT KIND CAB R.R./No. DERGW 01459 R.R./No. DERGW 22313 20153 R.R./No. UCR DESC. 40' Fish belly DESC. Steel - Black DESC. 40' FREIGHT WAYBILL 1 FREIGHT WAYBILL 1 EMPTY CAR CONSIGNEE CONSIGNEE Pueblo Steel CF4T ADDRESS Pueblo , CO RETURN TO: ROUTING BARAGE & SALIDA Pueblo, co VIA Temessee Pass VIA Mechanical Transfer SHIPPER _ SHIPPER CFLI ADDRESS ADDRESS Crested Butte, Co LADING Anthracite LADING. Reorder Micro-Mark #82910 Recycler Nikoro-Mark #50511 PDING **Lots of Data Minimum Empty-Highlighting No Way Bill INFO Helps**

Micro Mark Optional Loco Cards



No. 1505 KH ROAD DARGW TYPE 4-8-2 Lt Mtn DCCADDRESS 1505 RETURN LIGHT TO:	No. 1502 GC ROAD DE RGW TYPE L+ Mta 4-8-2 DCC ADDRESS 1502	No. 100 SL ROAD DARGW TYPE NW-2 DCC ADDRESS 100
PUEBLO, CO	Pueblo, Co	SALIDA, CO
Reorder Micro-Mark #82912	Reorder Micro-Mark #82912	Reorder Micro-Mark #82912

SLMI SG Train Orders



Ar	MP	Station	De
	119	Pueblo	9:04
9:09	\$166	R. Gorge	9:11
	171	Parkdale	9:11
5 in	212	Cleora	9:12
9:13 5	215	Salida	9:15
	281	Tenn Pass	9:15
9:20	424	Grand Jct	9:2
Service Republic Countries		UCTIONS: (2 MIN) ROYAL GO SALIDA	eye
SWIT	'сн :	1st Mais	ORA

	m m (m)	Stock S	
Ar	MP	Station	De
	THE PROPERTY OF STREET	Grand Jct	
	BACKSON CAN	Tenn Pass	-
9:0	* ISS P6000000 **E	Salida	9:05
		Cleora	W
	- 10 CO 1976	Parkdale	W
_		R. Gorge	
_	_ 119	Pueblo 4	h
neci	al Inetr	uctions:	
710000	CD-00000 000	manager.	
Pic	k 0	p: Sale	da
-		Cleo	
		Park	dale
W A	T: 6	OCLEDINA	COLUMN TO SERVICE STATE OF THE PARTY OF THE
-		Scenic Li	

Ar		Station	De
10.3		Pueblo R. Gorge	10:35
		Parkdale	10:41
SW	212	Cleora	10:42
101433	Married Married Street, Square, Square	Salida	10:4
	and the second second	Tenn Pass Grand Jct	10:4
Specia	al Instr	uctions:	
STO		SALIDA	
	0	ick up h	'B
		SET OUT	
	-	as Ish M	ain
50	JITC	H: 194 M	ORA

Passenger

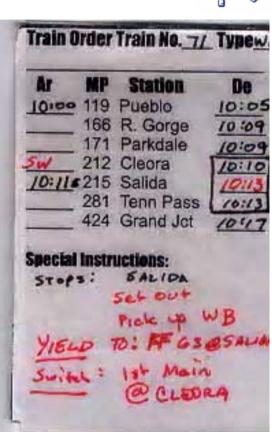
Stock Special **Way Freight**

More Train Order Examples



AI	MP	Station	De
9:30	119	Pueblo	4:35
9:41 5	166	R. Gorge	9:42
91435	171	Parkdale (1)9145
	212	Cleora	9:46
9:475	215	Salida	9:49
7	100000000000000000000000000000000000000	Tenn Pass	9149
9:51	424	Grand Jct	
STOP	s: Ri Pa	uctions: pyae Goden redated reipa	(2 MIN) (2 MIN) (2 MIN)

Ar	MP	Station	De
1770	11101779	Pueblo	9:41
	 H MOSICAGE 	R. Gorge	9:4"
	- CONTROL POLICE	Parkdale	9.47
	212	Cleora	9:46
	215	Salida	9:50
	COMPANY NORTH	Tenn Pass	9:50
- 2	_ 424	Grand Jct	9:5
peci	al Instr	uctions:	
WA	TCH	DUT FEE	
TR	DIN	#16 @	
Ro	YAL (GORGE (P	ADVO HEAD)
	PS	SALIDA	



Passenger

Passenger

Way Freight

SLMI Train Orders w/ Loco Cards



rain Order Train No. 16 Type P	Train Order Train No. 62 Type F
Ar MP Station De 424 Grand Jct 9:40 281 Tenn Pass 9:46 215 Salida 9:46 212 Cleora 9:47 171 Parkdale 9:48 166 R. Gorge 9:46	Ar MP Station 424 Grand Jet 281 Tenn Pass 215 Salida 212 Cleora 171 Parkdale 166 R. Gorge 119 Pueblo 9:20
	New Mexico Express Ar MP Station De 424 Grand Jct 9:40 281 Tenn Pass 9:46 215 Salida 9:47 212 Cleora 9:47 171 Parkdale 9:48 9:48

Fast Freight No Stops

Passenger

Order easily
Transfers to
New Power

Salida CCWB Usages



SG Gondola Car Routing (Loads)

- 1) Loaded Car begins at Barrel Transfer to Salida Transfer Yard
- 2) Loaded Car picked up at Salida for shipment to Pueblo

SG Gondola Car Routing (Empties)

- 1) Empty originates at Pueblo (staging) Send to Salida Transfer Yard
- 2) Transfer Yard to Barrel Load Track

General Way Freight

- 1) East & West bound cars dropped & picked up in Transfer Yard
- 2) Reefers are serviced for Icing and either dropped or picked up.
- 3) LCL Boxcars / Flats with NG freight to Freight Transfer Platform

Passenger

1) REA Reefers transferred on Depot House Track

Where do the CCWBs Go?



- Car is in possession of the Conductor
 - In train or in process of being Switched
 - CCWB is retained by Conductor
 - Train Deck of CCWBs are kept in order of cars in train, from head to tail
- Car deposited in Yard or siding
 - CCWB put in appropriate slot of card holder
 - Conductor or Yard Master advances Waybill in Car Card Holder when complete
 - When picking up cars, do not pick up car you just dropped (it is either being loaded, emptied or serviced)
- CCWB ALWAYS follows its parent car around the railroad,
 - It is either in a train with the Conductor or in a yard/siding in an appropriate holder.

Monarch CCWB Usages



Monarch NG High Side Gondola Car Routing (Limestone Loads)

- 1) Loaded Car begins at CF&I Load Tracks to Poncha Jct
- 2) Poncha Jct to Salida NG Yard
- 3) Salida NG Yard to Barrel Transfer NG Loaded Track

Monarch NG High Side Gondola Car Routing (Empties)

- 1) Barrel Transfer NG Empties Track to Salida NG Yard
- 2) Salida NG Yard to Poncha Jct
- 3) Poncha Jct to Monarch CF&I Feeder Tracks

Waybills are 'rotated' by Conductor or Yard Master at completion of switching, from '1' to '2' to '3'. After '3', movements are done for the session.

Crested Butte NG Operations





A Consolidation makes
The tight radii to bring in
& out empties & loads of
Anthracite in High side
Gons for CF&I

A Loco will be assigned To pick up loads from CB yard, to take over MP To Barrel Transfer in Salida, leaving more Empties in yard.

A mixed daily will also Make a run from Gunnison

Passengers will be picked up at the Depot Locos serviced at the Tank and basic engine facilities

Gunnison NG Operations





Parlin NG Operations



Depot

Stockpens

Passing Siding

Loading Ramp

Tank



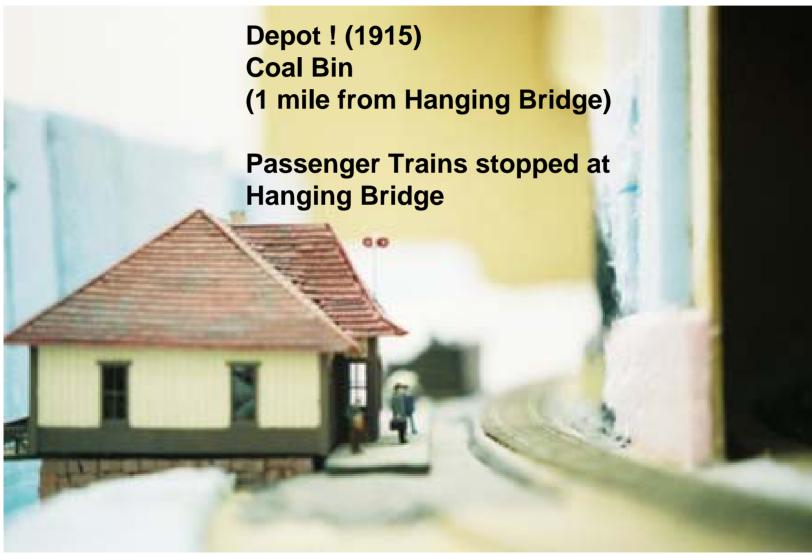
Switch Panel

Marshall Pass NG Operations



Royal Gorge Operations (SG)





Parkdale Operations (SG)

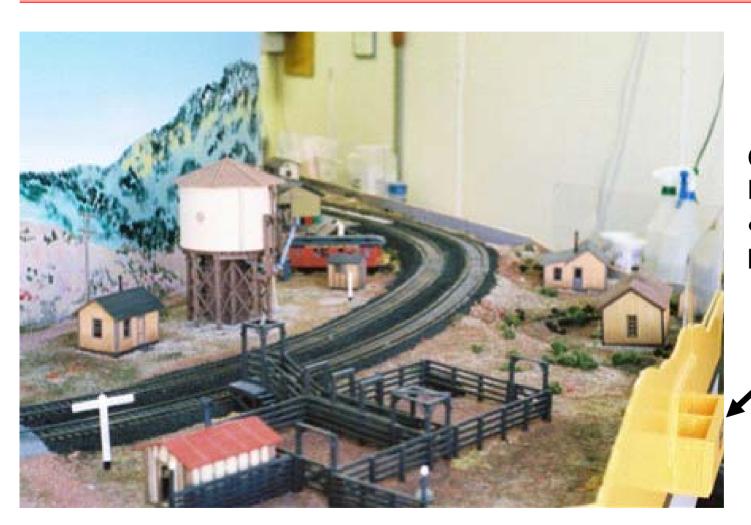
Stockpen Depot Freight Platform Tank Mail Crane





Parkdale Operations (SG)





Card Holder
For Stockpen
& freight
platform



Thankyou for listening