

Great Northern Railway, Cascade Division, Main Line  
Feb 2<sup>nd</sup> To Feb 5<sup>th</sup> =1949=

### **A Night on Third Trick with Ed Khatain**

What follows is probably a typical night during this period when the challenge for the dispatcher was to weave a freight train or two into a mix of heavy passenger traffic and do so all within the power limitations of the electrical system. The night starts with No 4 and No 27 (which is late) getting out at opposite ends of the zone with no limitations, using up 11250 KW.

At 1230, Dispatcher Ed Khatain limits No 4 to 1000 amps to provide for X5016West out of Appleyard, which he restricts on power to Cashmere (including no power on one of the Westinghouse helper sets). This allows for No 28 to get out with a big GE with no amp restriction. After No 27 tips over at Berne and goes into regeneration, Ed clears X5016West out of Cashmere with amp order 213, which calls for increasing power, including that of the idling double cab helper. This now brings power consumption up to 16500 KW.

He then restricts No 28 to 1600 amps at Scenic, knowing that it will soon enter Cascade tunnel with the grade dropping from 2.2 to 1.57%. Shortly after, No 28 will be on regeneration at Berne. When the X5016West gets up to Leavenworth, Ed gives him 5 mins help on order no 213, extending the time from 450 to 455am Before having to drop to 300 amps.

No 3 and No 1 are both running late so he wants to give them maximum power and clears No 3 first at 431am with a likely pair of GE's. We're now up 19700 KW. At 445 am, he has X5016West drop amperage to allow No 1 to get out unrestricted, being cleared at 449am. No 1 probably didn't get out until 450 or possibly as late as 501 am, but if it was drawing 5500 KW with the big GE 5019, and the X5016 West had not yet gone into regeneration, the total demand would have been 22,900 KW.

Was this the night Ed exceeded the 20,000 KW limit? Without the train sheets we don't know exactly what time these two events occurred, but based on the OS at Scenic, the X5016 West should have crested at 454am, which would have limited the overcurrent to a period of 5 mins or less. Surely Ed Khatain was well aware of the 5 min "fudge factor" in the power contract and used it to his best advantage.

Finally, after Nos 1 and 3 go into regeneration, having departed Merritt 4 mins apart with Ed protecting the "streamliner" with a pass order, with X5016 West is likely getting in the clear at Sky. A little earlier, X5006West gets out of Appleyard with 1000 amps on one cab only to Cashmere, and then picks up to 1100 on all three locomotives for 10200 KW, just about 620am, the time No 3 has tipped over.

Just another night on third trick....

Form 1037

TRAIN DISPATCHER'S ORDER BOOK JCS FEB 2 19 49

<Transfer Page>

To EK

805 /  
965 /  
969 /

~~288~~ JCS  
289 /  
290 /  
304 /  
305 /  
307 /

JCS <John C. Shuman>

NO 27 WC 1145 Pm /  
NO 1 = 20 mins late /  
NO 3 = WC 415 AM /

EK

TRAIN DISPATCHER'S ORDER BOOK EK FEB 3 19 49

<Clearance Page>

=Clearances=

|           |    |   |                             |         |
|-----------|----|---|-----------------------------|---------|
| No 4      | Ky | 1 | 309                         | 1148 PM |
| No 27     | WC | 6 | 304 307 202 203 805 965     | 1210 AM |
| No 4      | Ma | 2 | 202                         | 1224 AM |
| 5016 West | WD | 7 | 305 308 310 201 205 805 965 | 1229 AM |
| No 28     | Ky | 2 | 203 208                     | 1247 AM |
| No 442    | Jn | 5 | 204 209 290 965 969         | 102 AM  |
| No 442    | W  | 2 | 210 211                     | 130 AM  |
| 2050 West | Ky | 5 | 290 204 210 965 969         | 131 AM  |
| Yd Engs   | W  | 3 | 210 211 212                 | 133 AM  |
| 5016 West | OM | 2 | 213 214                     | 149 AM  |
| No 28     | Ma | 2 | 214 215                     | 151 AM  |



201 to C&E NO 1 at WC  
C&E EXA 5016 WEST at WD

COM 1201 AM  
1202 AM

NO 1 ENG UNKNOWN WAIT AT  
WENATCHEE UNTIL FOUR THIRTY FIVE 435 AM  
LEAVENWORTH FIVE NAUGHT FIVE 505 AM  
MERRITT FIVE THIRTY 530 AM

<201 begins new numbering sequence for new calendar day>

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202 to C&E NO 4 at MA  
C&E NO 27 at WC

COM 1205 AM  
1205 AM

NO 4 ENG 5012 MEET NO 27 ENG 5011 AT WINTON

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203 to C&E NO 28 at KY  
C&E NO 27 at WC

COM 1208 AM  
1208 AM

NO 28 ENG 5019 MEET NO 27 ENG 5011 AT SCENIC

NO 28 TAKE SIDING

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204 to C&E NO 442 at JN  
C&E ENG 2050 at KY

COM 1222 AM  
1222 AM

ENG 2050 RUN EXTRA SKYKOMISH TO GOLD BAR HAS  
RIGHT OVER NO 442 ENG 2117 SKYKOMISH TO  
GOLD BAR

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205 to C&E EXA 5016 WEST at WD

COM 1226 AM

ALL REGULAR CASCADE DIVN TRAINS DUE AT  
WENATCHEE AT OR BEFORE TWELVE TEN 1210 AM  
HAVE ARRIVED OR LEFT

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206 to OPR at WD  
OPR at CH

COM 1227 AM  
1237 AM

ORDER NO 304 OF FEB 2ND IS ANNULLED

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207 to OPR at WD COM 1238 AM  
OPR at CH 1238 AM  
OPR at KY 315 AM  
OPR at W 315 AM  
OPR at JN 315 AM

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208 to C&E NO 1 at WC COM 1246 AM  
C&E NO 28 at KY 1247 AM

NO 28 ENG 5019 HAS RIGHT OVER NO 1 ENG UNKNOWN  
SKYKOMISH TO CROSSOVER NO 4 WENATCHEE

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209 to C&E NO 442 at JN COM 1259 AM

ALL REGULAR TRAINS DUE AT LOWELL AND SKYKOMISH  
AT OR BEFORE TWELVE TEN 1210 AM HAVE PASSED

NO SIGNALS ON NO 27 NO 3 AND NO 1 ARRIVING AND  
NO 28 LEAVING SKYKOMISH

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210 to C&E NO 27 at KY  
C&E EXA 2050 WEST at KY COM 124 AM  
C&E NO 442 at W  
C&E YD ENGS at W 124 AM

NO 27 ENG 376 WAIT AT  
SKYKOMISH UNTIL TWO FORTY FIVE 245 AM  
INDEX THREE NAUGHT FIVE 305 AM  
GOLD BAR THREE TWENTY 320 AM  
MONROE THREE THIRTY FIVE 335 AM  
SNOHOMISH THREE FORTY TWO 342 AM

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211 to C&E NO 3 at KY COM 128 AM  
C&E NO 442 at W  
C&E NO 404 at W  
C&E YD ENGS at W 128 AM

NO 3 ENG 2506 WAIT AT  
SKYKOMISH UNTIL SIX TWENTY FIVE 625 AM  
GOLD BAR SIX FIFTY NINE 659 AM  
MONROE SEVEN FIFTEEN 715 AM

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212 to C&E YD ENGS at W

COM 130 AM

ALL FIRST CLASS TRAINS DUE AT LOWELL AT OR BEFORE  
ONE TEN 110 AM HAVE PASSED

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213 to C&E EXA 5016 WEST at OM

COM 143 AM

ORDER NO 310 OF FEB 2ND IS ANNULLED

DO NOT EXCEED EIGHT HUNDRED 800 AMPERES ON ENG 5016  
AND ONE THOUSAND FIFTY 1050 AMPERES ON ENGS 5000 AND  
5002 UNTIL FOUR TWENTY FIVE 425 AM THEN REDUCE TO  
SEVEN HUNDRED 700 AMPERES ON ENG 5016 AND NINE  
HUNDRED TWENTY FIVE 925 AMPERES ON ENGS 5000 AND  
5002 UNTIL FOUR FIFTY 450 AM THEN REDUCE TO THREE  
HUNDRED 300 AMPERES ON ENGS 5016 5000 AND 5002  
UNTIL NO 1 HAS PASSED BERNE THEN DO NOT EXCEED  
NINE HUNDRED 900 AMPERES ON ENG 5016 AND ELEVEN  
HUNDRED FIFTY 1150 AMPERES ON ENGS 5000 AND 5002

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214 to C&E NO 28 at MA

COM 146 AM

C&E EXA 5016 WEST at OM

147 AM

NO 28 ENG 5019 MEET EXA 5016 WEST AT CHUMSTICK

NO 28 TAKE SIDING

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215 to C&E NO 28 at MA

COM 151 AM

DO NOT EXCEED SIXTEEN HUNDRED 1600 AMPERES

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216 to C&E NO 1 at WC

OPR at WC

COM 221 AM

C&E EXA 5016 WEST at CH

222 AM

ORDER NO 201 IS ANNULLED

NO 1 ENG 5018 WAIT AT

WENATCHEE UNTIL FOUR FORTY FIVE 445 AM  
LEAVENWORTH FIVE FIFTEEN 515 AM  
MERRITT FIVE FORTY 540 AM  
BERNE FIVE FIFTY THREE 553 AM  
SCENIC SIX NAUGHT EIGHT 608 AM  
TONGA SIX TWENTY 620 AM

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217 to C&E EXTRA 5016 WEST at CH COM 224 AM

ORDER NO 213 SHOULD READ UNTIL FOUR FIFTY FIVE 455 AM  
INSTEAD OF UNTIL FOUR FIFTY 450 AM

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218 to C&E NO 1 at WC COM 238 AM  
C&E NO 3 at WC

NO 3 ENG 5014 RUN AHEAD OF NO 1 ENG 5018  
WENATCHEE TO GROTTO

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219 to C&E NO 3 at WC COM 248 AM  
C&E EXA 3054 EAST at CH 248 AM

NO 3 ENG 5014 WAIT AT  
CASHMERE UNTIL FOUR FORTY FIVE 445 AM  
DRYDEN FOUR FIFTY THREE 453 AM  
FOR EXA 3054 EAST

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220 to C&E NO 1 at WC COM 250 AM  
C&E EXA 3054 EAST at CH 251 AM

NO 1 ENG 5018 WAIT AT  
CASHMERE UNTIL FIVE NAUGHT ONE 501 AM  
DRYDEN FIVE NAUGHT SEVEN 507 AM

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221 to C&E EXA 3054 EAST at CH COM 253 AM  
C&E ENG 5006 at WD 254 AM

ENG 5006 RUN EXA WENATCHEE TO SKYKOMISH  
HAS RIGHT OVER EXA 3054 EAST WENATCHEE  
TO SKYKOMISH

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222 to C&E NO 1 at KY  
C&E NO 3 at KY COM 257 AM  
C&E NO 442 at GB 258 AM

NO 1 ENG 375 AND NO 3 ENG 2506 WAIT AT SKYKOMISH  
UNTIL SIX FORTY 640 AM FOR NO 442 ENG 2117

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223 to C&E ENG 3054 at CH COM 307 AM

ENG 3054 RUN EXA LEAVENWORTH TO WENATCHEE

NO 4 AND 27 HAVE PASSED LEAVENWORTH

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224 to OPR at CH COM 308 AM

ORDER NO 305 OF FEB 2ND IS ANNULLED

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225 to C&E EXA 5006 WEST at WD COM 311 AM  
C&E EXA 3054 EAST at CH 312 AM

EXA 5006 WEST WAIT AT  
WENATCHEE UNTIL FIVE FORTY 540 AM  
MONITOR FIVE FIFTY FIVE 555 AM  
CASHMERE SIX TEN 610 AM  
FOR EXA 3054 EAST

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226 to C&E EXA 2048 WEST at KY  
C&E EXA 3100 WEST at KY COM 319 AM  
C&E ENG 1712 at JN 319 AM

ENG 1712 RUN PSGR EXA EVERETT TO SKYKOMISH  
HAS RIGHT OVER EXA 2048 WEST AND EXA 3100 WEST  
EVERETT TO SKYKOMISH

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227 to C&E NO 442 at KY COM 323 AM  
C&E EXA 5006 WEST at WD 323 AM

NO 442 ENG UNKNOWN MEET EXA 5006 WEST AT SCENIC



NO 442 TAKE SIDING

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228 to C&E EXA 5016 WEST at CK

COM 340 AM

ORDERS NO 213 AND 217 ARE ANNULLED

DO NOT EXCEED NINE HUNDRED 900 AMPERES ON ENG 5016  
AND ELEVEN HUNDRED FIFTY 1150 AMPERES ON ENGS 5000  
AND 5002 UNTIL FOUR FORTY FIVE 445 AM THEN REDUCE TO  
SEVEN HUNDRED 700 AMPERES ON ENG 5016 AND NINE HUNDRED  
TWENTY FIVE 925 AMPERES ON ENGS 5000 AND 5002 UNTIL  
FOUR FIFTY NINE 459 AM THEN REDUCE TO THREE HUNDRED  
300 AMPERES ON ENGS 5016 5000 AND 5002

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229 to C&E NO 3 at WC

C&E NO 1 at WC

C&E EXA 3054 EAST at OM

COM 350 AM

350 AM

NO 3 ENG 5014 AND NO 1 ENG 5018 WAIT AT MONITOR  
UNTIL FOUR FORTY FIVE 445 AM FOR EXA 3054 EAST

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230 to C&E NO 404 at W

C&E YD ENGS at W

C&E EXA NP 1803 WEST at SH

COM 355 AM

356 AM

ALL REGULAR TRAINS DUE AT SNOHOMISH AND LOWELL  
AT OR BEFORE THREE FIFTY 350 AM HAVE PASSED

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231 to OPR at WC

COM 413 AM

ORDER NO 307 OF FEB 2ND AND ORDER NO 208 ARE  
ANNULLED

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232 to C&E EXA 5006 WEST at WD

COM 425 AM

DO NOT EXCEED ONE THOUSAND 1000 AMPERES ON ENG  
5006 AND USE NO POWER ON ENGS 5004 AND 5008 UNTIL  
NO 3 HAS PASSED BERNE THEN DO NOT EXCEED ELEVEN  
HUNDRED 1100 AMPERES AND USE POWER ON ALL CABS

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233 to C&E NO 1 at WC COM 447 AM

NO 3 HAS LEFT WENATCHEE

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234 to C&E NO 3 at CH  
C&E NO 1 at CH COM 505 AM

ORDER NO 218 IS ANNULLED

NO 3 ENG 5014 RUN AHEAD OF NO 1 ENG 5018  
WENATCHEE TO MERRITT

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235 to OPR at KY COM 455 AM

ORDER NO 222 IS ANNULLED

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236 to C&E PSGR EXA 1712 EAST at JN COM 459 AM  
C&E ENG 2117 at KY 459 AM

ENG 2117 RUN EXA SKYKOMISH TO GOLD BAR  
HAS RIGHT OVER PSGR EXA 1712 EAST  
SKYKOMISH TO GOLD BAR

THIS ORDER IS ANNULLED AT EIGHT FORTY 840 AM

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<Clearance Page>

= Clearances =

|            |    |   |                             |        |
|------------|----|---|-----------------------------|--------|
| NO 1       | CH | 1 | 234                         | 506 AM |
| 5006 West  | WD | 7 | 221 225 227 232 237 805 965 | 511 AM |
| 2117 West  | Ky | 4 | 236 238 965 969             | 526 AM |
| NP1803West | SH | 4 | 230 238 239 969             | 539 AM |
| NO 1       | Ky | 2 | 238 969                     | 618 AM |
| NO 3       | Ky | 2 | 238 969                     | 618 AM |
| 5006 West  | OM | 1 | 242                         | 620 AM |
| WK 3119    | WC | 4 | 243 245 805 965             | 649 AM |
| 1712 East  | Jn | 6 | 206 236 238 240 965 969     | 653 AM |
| NO 442     | Ky | 3 | 227 248 965                 | 718 AM |

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237 to C&E EXA 5006 WEST at WD

COM 508 AM

ALL REGULAR CASCADE DIVN TRAINS DUE AT WENATCHEE  
AT OR BEFORE FOUR FIFTY 450 AM HAVE ARRIVED OR LEFT

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238 to C&E NO 1 at KY

C&E NO 3 at KY

C&E EXA 2117 WEST at KY

OPR at KY

COM 523 AM

C&E EXA NP 1803 WEST at SH

538 AM

C&E YARD ENGS at W

540 AM

C&E PSGR EXA 1712 EAST at JN

540 AM

ORDER NO 211 IS ANNULLED

NO 1 ENG 375 AND NO 3 ENG 2506 WAIT AT  
SKYKOMISH UNTIL SIX FIFTY FIVE 655 AM

INDEX SEVEN TEN 710 AM

GOLD BAR SEVEN TWENTY FIVE 725 AM

SULTAN SEVEN THIRTY 730 AM

MONROE SEVEN THIRTY EIGHT 738 AM

SNOHOMISH SEVEN FORTY FOUR 744 AM

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239 to C&E PSGR EXA 1712 EAST at JN

COM 533 AM

C&E ENG NP 1803 at SH

534 AM

ENG NP 1803 RUN EXA SNOHOMISH JCT TO NP JCT HAS  
RIGHT OVER PSGR EXA 1712 EAST SNOHOMISH JCT  
TO NP JCT

NO 404 HAS PASSED SNOHOMISH

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240 to C&E PSGR EXA 1712 EAST at JN

COM 545 AM

ALL REGULAR TRAINS DUE AT LOWELL AND SKYKOMISH  
AT OR BEFORE FOUR TEN 410 AM HAVE PASSED

NO SIGNALS ON NO 3 AND NO 1 ARRIVING AT SKYKOMISH

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241 to C&E ENG 2048 at KY COM 616 AM

ENG 2048 RUN EXTRA SKYKOMISH TO EVERETT JCT

NO 404 HAS ARRIVED AT MONROE

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242 to C&E EXA 5006 WEST at OM COM 620 AM

NO 3 HAS PASSED BERNE

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243 to C&E WESTWARD EXA TRAINS STARTING at WD COM 626 AM  
C&E EASTWARD EXA TRAINS at KY 626 AM  
C&E ENG 3119 at WC 627 AM

ENG 3119 WORKS EXA SIX TEN 610 AM UNTIL SIX TEN 610 PM  
BETWEEN WENATCHEE AND CASHMERE CLEARS PSGR EXA  
5018 EAST AFTER ELEVEN TEN 1110 AM NOT PROTECTING  
AGAINST EXA TRAINS UNTIL TWELVE TEN 1210 PM

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244 to C&E EASTWARD EXA TRAINS at RO COM 643 AM  
C&E WESTWARD EXA TRAINS at KY  
C&E ENG 3212 at KY 644 AM

ENG 3212 WORKS EXA SIX THIRTY 630 AM UNTIL NINE  
THIRTY 930 PM BETWEEN SKYKOMISH AND INDEX  
CLEARS EXA 2117 WEST AFTER SIX THIRTY 630 AM  
CLEARS PSGR EXA 1712 EAST AFTER NINE TEN 910 AM  
NOT PROTECTING AGAINST EXA TRAINS UNTIL  
TWELVE TEN 1210 PM EXCEPT PROTECTS AGAINST  
EXA 2048 WEST AFTER SIX THIRTY 630 AM  
EXA 3100 WEST AFTER NINE THIRTY 930 AM  
EXA 2054 WEST AFTER TEN THIRTY 1030 AM

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<Lineup Page>

Betw WC + Ky until 1 pm

Oprs WD + No 1 By CK 558 AM  
WC - No 3 Left CK 602 AM  
OM + Psgr Exa 5018 East Lv Ky 830 AM / 607 Am  
CH + No 6 O. T.  
CK + Exa 5016 West By Ma 518 Am

BR + Exa 5006 West By WC 550 Am  
Ma + No 441 Lv WC O. T.  
Ky + No 442 Lv Ky 730 Am  
Eng 3119 Works Betw W.C. + Ky  
Eng X838 Hi Car Works Betw C.H. + BR

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<Lineup Page>

Betw Ky + W Until 1 Pm

Oprs Ky + No 1 Lv Ky. 655 Am  
Ro + No 3 Lv Ky 715 Am / 614 Am  
SH + Psgr Exa 1712 East Lv Jn 7 Am  
W No 6 O. T.  
PG + Exa 2117 West a GB Hpr Left  
Jn + Sky at 540 Am  
Exa 3100 West Local is called  
At Sky for 645 Am  
Exa 2048 West Lv Ky 720 Am  
Exa 2054 West Lv Ky 1030 Am  
GB Hpr Lv Ky Noon  
Exa East Lv W Noon  
Eng 3212 Works Betw Ky + NX

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245 to C&E NO 442 at MA COM 647 AM  
C&E WORK EXA X838 at CH 648 AM  
C&E WORK EXA 3119 at WC 649 AM

NO 442 ENG 5017 WAIT AT  
BERNE UNTIL NINE FORTY 940 AM  
MERRITT TEN TWENTY 1020 AM  
CASHMERE ELEVEN TEN 1110 AM

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246 to OPR at JN COM 651 AM

ORDER NO 239 IS ANNULLED

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247 to OPR at KY COM 702 AM

ORDER NO 308 OF FEB 2ND IS ANNULLED

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248 to C&E NO 442 at KY

COM 706 AM

DO NOT LEAVE SKYKOMISH UNTIL EXTRA 5006 WEST  
HAS PASSED BERNE

THEN DO NOT EXCEED NINE HUNDRED 900 AMPERES  
ON ENG 5017 AND ELEVEN HUNDRED FIFTY 1150  
AMPERES ON ENGS 5000 AND 5002

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249 to C&E WESTWARD EXA TRAINS STARTING at WD COM 712 AM  
C&E EASTWARD EXA TRAINS at MA 713 AM  
C&E ENG X838 at CH 714 AM

ENG X838 WORKS EXA SEVEN THIRTY 730 AM UNTIL  
FIVE THIRTY 530 PM BETWEEN LEAVENWORTH AND  
BERNE CLEARS EXA 5006 WEST AFTER SEVEN THIRTY  
730 AM CLEARS PSGR EXA 5018 EAST AFTER TEN  
FIFTY 1050 AM NOT PROTECTING AGAINST EXA TRAINS  
UNTIL TWELVE TEN 1210 PM

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250 to C&E WORK EXA X838 at CH

COM 715 AM

ALL REGULAR TRAINS DUE AT LEAVENWORTH AT OR  
BEFORE SEVEN TEN 710 AM HAVE PASSED

EXA 5006 WEST HAS LEFT LEAVENWORTH

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<Transfer Page>

To WBJ 8 am

|       |                   |
|-------|-------------------|
| 805 / | <del>308</del> EK |
| 965 / | 221 /             |
| 969 / | 226 /             |
|       | 227 /             |
|       | 232 /             |
|       | 236 /             |
|       | 238 /             |
|       | 240 /             |
|       | 241 /             |
|       | 243 /             |
|       | 244 /             |
|       | 245 /             |

248 /  
249 /  
250 /

J. V  
B. ^  
W. V 738 am  
/\

EK

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<Next order was No 251 issued by W. "Bud" Jones and completed at 741 am>

\*\*\* End \*\*\*

Beginning his career with the Great Northern as a telegrapher in 1940, Ed Khatain eventually became Seattle Chief Dispatcher in 1967, retiring from Burlington Northern in 1981. Ed passed away on July 1, 2010 at the age of 89.

Transcription by: John Pomykata, Omaha, NE

Source: train order logbooks from Dave Sprau Collection, GNRHS Archives

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