~~1019 / 21 C0729~~ D=C C0742

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

# RESIDENT ENGINEER'S DAILY REPORT
# ASST. RESIDENT ENGINEER'S DAILY REPORT

CEM-4501 (REV. 11/92) CT# 7541-3506-1

☐ RESIDENT ENGINEER'S DAILY REPORT - FILE CAT. 45

☒ ASST. RESIDENT ENGINEER'S DAILY REPORT - FILE CAT. 46

JOB STAMP

04-0120F4
04-SF-80-13.2/13.9
SF/0BB EAST SPANS SEISMIC SAFETY PROJECT (SELF ANCHORED SUSPENSION: TOWER AND SUPERSTRUCTURE).

| REPORT NO. | — 1 / | DATE | 08 29 88 | M T W T (F) S S (Circle Day) |
|---|---|---|---|---|
| SHIFT HOUR: START | 0700 | STOP | 1530 | TEMPERATURE MIN ~60°F MAX |

WEATHER CLEAR, COLD → WARM A/M / ⇒ A/2

* (0612-0617=5'); {0711 ~ ~~0714~~ → 1541 "-" 51' = 1536 → 1693 ⇒ +1°01'? < 0°33'>

L: (1231-1244=13), (1521-1524=3), ~~(1601-1609=8), (1401-1415=14)~~ SAY 0 +/- .2'

H: (0807-0822=15), (0906-0919=13), (1105-1113=8), ~~(1146-1156=10)~~ (1212-1214=2), (1219-1228=9), (1302-1315=13), (1320-1321=1), (1357-1401=4), ~~(1401-)~~ (1539+542=3), (1636-1637=1).

⇒ Σ(H) = 69' - 4 30' (=2 RKS.) ⇒ +39'.

~~ADMIN~~ JC ~~TR~~ 915 0612-0617

~~SF/0BB~~ SAS:

~~BUE~~ JS ROM ~~TR~~ 1510 ATOFF 0720 ~ -0728

1) NEEDS TO STAY HOME 'TIL ~1100 HRS.

2) TRAINING MTG ?: YES - 0900 @ SACTO.

SIGNATURE

TITLE Assistant Structure Representative/ Leadworker

CEM4501

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'12 DEC-26 AM10:43 24211

46.02

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|---|---|
| SHIFT HOUR: START — STOP — | TEMPERATURE MIN — MAX — |
| WEATHER — | |

(CONT'N)

E/M #1/N = 1,019 J/R +2 ✓ 0729

J/R RPT. ✓ → PMIV: ST. ✓ → S.S. #75 DRAFT CT 82: NO ACTION ✓ 0734

ASPET ✓ E/M ✓ 0735

DOR ✓ 0742 J.C.

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REPORT NO. ~~3~~ ? / —

DATE 08 29 08 M T W T F S S (Circle Day)

SHIFT HOUR: START — STOP —

TEMPERATURE MIN — MAX —

WEATHER —

DJV (c) TOM #0 9-1-415-~~XXX~~307-9792 (c) 0743

→ V/M: — (NOT SET UP...!)

GLENN E.F. 9-1-916-825-8539 (c) 0745

0750

(c)

1) (c) RJR

2) E/M(s) 3) PAINT TESTING, 2 MOV T/LAB. SHANGHAI LAB NO PQLP NO APP'L TAIWAN IS IA DOREK: DOESN'T HAVE TO BE WET — BLAST & PAINT WANT TO START PAINTING SPECS. — TESTS (c) KEITH D/ ANN DISCOE ON PA (c) KD: CRACKED WELD ⇨ CT SR LETTER: TOUCHY-FEELY STOP WORK: FOILED PANELS...) DJV (c) RAMZI YESTY. (c) EVA TIC — JOSH E., ANDY V.!

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|---|---|
| SHIFT HOUR: START ___ STOP ___ | TEMPERATURE MIN ___ MAX ___ |
| WEATHER | |

(CONT.)
8 HR. BLAST → PAINT / A MARKMAN ← DIVE WORK..

<0807

A(CALSI)/ <0819 / A(E/M)/ <0822

A GLENN E.F. 0822
E/M..! → J. OTTER & ME
↳ STEVE HALSEY HP MUX

<0855
A BCE GIL K.:

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| REPORT NO. | DATE |
|---|---|
| — | A 29 03 (M T W T F S S — Circle Day) |
| SHIFT HOUR: START — STOP — | TEMPERATURE MIN — MAX — |
| WEATHER | |

? 5 /

<8857

* SAN: 1 #7 L + 4 dl ($100 ¢ @ ROCKET)

→ AARON P.:

→ BOB B.:

→ REV: 8 #757 - DRAFT CT SL P/O → SPOT ✓ E/M j <8858

* RE/ HPCLJ SNATV: (c) r W&C & MOTANE W... j <8902

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REPORT NO. 6

DATE 8 29 08 M T W T F S S (Circle Day)

SHIFT HOUR: START ~~STOP~~

TEMPERATURE ~~MIN~~ MAX

WEATHER

P/C) + BOB R. (CALL) NO CALL < GLENN E.F (?)
NO ME W/ SCHAF (?) RE M. E/M COMMENT.../ GOT RESUMES & PATES.../
3) E-STOP ?/

<0946

(CALL T)/ <0919 / BOB B.: VAR DIALS - cc: RESUMES.../ <0920

→ 1103
0921

GLENN E.F
TOM HG, RICK HENDRICKSON, SCOTTY/
COPY TO
GOALS (1→3→5)/
#1) FORCE-5 VALVE - SUPPLIED: LOCKING HANDLE/ CONCERN: HOSE BURST. DOES: CONTROL IT'N + USE a AIR MOTOR ⟹ TRANSLATES TO JERKY MOTION OF PLATFORM TRAVEL/
"FLOW CONTROL" = PROPORTIONAL
NO INFO. ON WEB/ SEATTLE/ GOT FULL CATALOG/
FORCE 5 AIR WINCH CATALOG: "K5R", "K5L"/

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|---|---|---|
| 3/ | 8 29 08 | M T W T F S S (Circle Day) |
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| WEATHER — | | |

(CONT'D)

- SAS, SAST: (C) JO: CHARLOTT 95' PSEG) 700 SCFM (VALVE) "PROPORTIONAL FLOW CONTROL" ⇔ EXPLODED VIEW ROTATE BARREL INSIDE HOUSING WINDOW IN HOUSING ORIFICE T/L
(C) SCOTTY: DOSE...
→ ISSUE W/: "PROP'L FLOW CONTROL" ONLY..
→ USE QUOTE

STEP #2) ONBOARD AS DRAWN AN SCHEMATIC SAS NO, SPOOL VALVE W/ MOTORS TO BE ORDERED (C) JO: ⇔ PROP'L FLOW CONTROL ≠ NO ADD'L VALVES W/ ATEs OR COULD GET VALVE CHEST FOR REMAINT # OF PORTS ⇔ T/R (SAFETY...)
GLENN EF: SOCKET — INSIDE ENGR...

STEP #3) DYNAMICS OF AIR W/A SYSTEM LIKE THIS SCHEMATIC E/M.../ COMPLETED ⇐ DSV (C) JOB #

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|---|---|---|
| 2 | 8 29 08 | M T W T F S S (Circle Day) |
| SHIFT HOUR: START — STOP | TEMPERATURE MIN — MAX | |
| WEATHER | | |

(CONT'D)
NOT TO CONTRACTOR: E/M ATT I. 49.24-(1) (MECH'L): NOTE TO C
(1) SCOTTY: DYNAMICS OF FLW/ PRESSURE...
— KNOB W/ NEEDLE CONTROL
STATED PRESS MAINTAINED / ANALYSIS BY
700 SCFM @ 90 PSIG
(2) SCOTTY: ↑ ⇒ THROUGHPUT CAPACITY
(3) SCOTTY ⇔ I/R MOTOR RELATES
(4) SCOTTY: NO PERF. MOTORS
ATE CATALOG: AIR/CAP @ FULL SPEED...
"AVE AIR CONSUMPTION"(?!) OF SCFM / ATE
⇒ 60 FPM
→ 139 FPM ("LIGHTLY LOADED")

ACFM — ACT
SCFM — "STD"
CFM —

} PNEUMATIC INDUSTRY PRAC
— LACK OF

CV FORM'S (4 PGS) — 2 W AIR FLOW DIRECTIONAL CONTROL
⇒ I/R PROB.: PROPRIETARY
· WORKED ON 3 OF WKE: BEST PORT WAY TO APPR.
CONTROL: DISK VALVE, NEEDLE VALVE — ALLOW SPEEDS

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| REPORT NO. ? 9 | DATE 8 29 08 M T W T F S S (Circle Day) |
|---|---|
| SHIFT HOUR: START ___ STOP ___ | TEMPERATURE MIN ___ MAX ___ |
| WEATHER ___ | |

(CONT'N)

OF OPS @ STATED PRESS.)

→ PRESS DROP @ CRITICAL

FOUR 5 VALVES 1 1/4" LINES ≠ MANIFOLD @ MOTORS — @ POINT IN TIME, GET TO STATED PRESS, NOT CONTROLLING PRESS, JUST FLOW

≠ CAN'T COMP. FOR PRESS DROPS BEYOND FOUR 5 VALVE

→ NON UNCONTROLABLE PRESS DROP

@ TIME MOVE HANDLE

→ ~~INCREASES~~ MAGNITUDE GETTING OUT OF SKEW

→ INDEPENDENTLY OPS

RESPONSE LAG: RAMP UP & RAMP DOWN

#4) PENDING DISC: MASTER CONTROL VALVE...

PAT WAITING HOUSE 1900 BRAKING TRANS MODULATE T/OUT ENT. CAL PATENT — GEORGE ALLEN

CONTROLS FOR SHIPS: THROTTLES, RUDDERS, ETC, PILOTING: PRESS. CONTROL, NOT VOLUME CONTROL.

FLOW OUT OF SKEW...)

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|---|---|
| 7 – 10 / | OCT 29 08 M T W T F S S (Circle Day) |
| SHIFT HOUR: START ____ STOP ____ | TEMPERATURE MIN ____ MAX ____ |
| WEATHER ____ | |

(CONT'N)

(0945) (C) SCOTT: READ PROP

CABLE: NO 1→2%, 3% @ SADDLE

(C) JO: NO RUNAWAY

(0952) CHANGE SCHEMATIC PRESENTATION...

X

DIAPHRAGM W/ SPRING

NO NEED TO END. WAY TO APPLY BRAKES TO REV. UNDER OF WHAT IS DOING

#5) CONTROL STAN ~~HEIGHT~~ – SAY: CAN STAND.-

(C) JO: CAN TAKE IN PROP.

IS, AS MORE...

O.T.'S CAN FIT IN TOPE, AT 'X' CONTROL STAN / MANIFOLD

IS = +4...) TO 20 FROM...)

SKEW: 6° MAX.? (C) JO: 5° SKEW NO → S.O. TRACK 10% SKEW

GET: AGENCY IN SYSTEM NOT ISSUE...

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RUGGEDNESS / DURABILITY — OFFSHORE DURABILITY:
SUBSTITUTION OF PILOTED SUBS — RELIABILITY?
→ DIRECT DRIVE

PRESS. —
REACH — WHICH BOUGHT
↳ > 50 YRS.
SCOTTY: DEAD — NEW — THE WATER CAM, E/MAILS EXPERIENCE
ATT I: BOTH HANDLES W/ 1 HAND

SKIP

US4 REACH ATT I
4 EA
AIR SUPPLY FOR RT.
— — — LT.
→ PRESS. & FLOW CONTROL W/ MOTORS
I/R "BREAKAWAY" PRESS. (TO KEEP START MOVING)
ROC. "FEATHER" CONTROLS & CONTROL STATE

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REPORT NO. — ?? /

DATE A 29 A

M T W T (F) S S (Circle Day)

SHIFT HOUR: START — STOP —

TEMPERATURE MIN — MAX —

WEATHER —

(CONT'D)
DYNAMICS OF [FLOW/ CONTROL — ?]
TORQUE (PRESS) & FLOW (SPEED)
+NEED I/R'S BREAKAWAY
CONTROL PRESS ⇔ ORIFICE

COMPRESSOR: 700 SCFM ?
NEED 35 PSI @ 50 SCFM FOR MOTOR
C/O 30: RESPONSE LAG IN PILOT LINE
⇒ ⇒ 1/4" LINE
+ TUNING ✓

CAP²
GET: PILOT LINE
→ C/O 30: QUICK DUMP @ CAP² SO NO BLEEDS.
CAP² AIR MOTOR SPOOL APPS I
→ SWITCHMATIC, NOT
I/R MAY BE IN _____ SPOOL
→ NOT A PRESS PILOT

SCOTTY: FEATHER PILOT TO
W/ CAP² CONTROL PRESS & FLOW

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| REPORT NO. 13 | DATE 4 29 02 M T W T F S S (Circle Day) |
|---|---|
| SHIFT HOUR: START ___ STOP ___ | TEMPERATURE MIN ___ MAX ___ |
| WEATHER ___ | |

(CONT'N)
"EXCOTE" POINT PRESSURE
CALIB² — SLOW: PILOT "EXCOTE POINT"

145 PSI @ FULL OPEN ORIFICE @ VALVE

(1015) GEF: PRES. — LT OF ROLLING RESISTANCE — RAILS W/ PLS.
"OTHER ISSUES" W/ TRAN² — SLOW, STOP/START...)
"BREAKAWAY" PT. — "35 PSI @ 50 SEC, SAY...?)
RADA - PUTTON MOTOR CHECK
TSM ROCKETS — SO YR EXP W/ SIMS: CONCERN
BREAKAWAY...)

WATERS ~ WEEKLY - COUPLED W/
LINKS W/ SUSP'N SYSTEM - MALE DRAW-BAR PULL
GEF: WORK-AGAINST NEXT ONE
SCOTT: HARTZELL THROTTLE W/ FLOW CONTROL

ADJ MOTOR @ CALIB² — SPOOL... (?)
CALIB² - THROTTLE — FLOW REG² VALVE

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| - 14 / | 08 29 08 | M T W T (F) S S (Circle Day) |
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| WEATHER | | |

(CONT'D)

(1021) (d SCOTTY → (d JO.: FORCE-S VALVE I SEE (AG TANK ⇒ MWL DOT. ⇔ ANTI-SKEW...)

(d JO: PROP'L - PILOT OPN - NOT FAM. W/ GEF: BENEFIT - ROD REPAIRS AWAY FR CONTROL STA'N (d JO: PROP'L PILOT - DOESN'T KNOW...)

(d SCOTTY: UTILITY "PRINT" ON MARKS NO.) + CONSTR'N TEAM ROCKETS, BOSCH - REXROTH

SUSP'N SYSTEM LOCKS 5 ATTS W. 6TH & WOULD JUST BE DRAGGED...)

EACH HISTORY - CADD DESIGNER: WANT TO PRESENT FINAL ON 4 DWGS. (d JO: WANT TO SEE...) (d JO: DOESN'T WANT TO SAY NO JUST B/C DIDN'T THINK OF IT...)

(1030)

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| WEATHER — | |

(CONT)

PILOT LINES — DOT TIEDOWNS, WELDING STAS, ACCESSIBILITY/ CAPACITY PROBS

SPEC —

(DSN (1) RM: MELD DRAFT)

(1034) 1 SPEC. AM: MENDING LEGS

GO FORWARD — (1) SO: "WORDLESS"

→ PILOT OPS SYSTEM

→ INNER WORKINGS OF VALVES

→ UNCHANGED — EXCEPT CARTRIDGE ## REPLACEMENT

⇒ MECH. STAFF ../

BY END OF NEXT WK / + E/M + PM. MTG

→ PILOT OPS CONTROLS

(1) SO: IDEA OF SCREW CONTROL

→ 2-STEP A/SCREW../ YET TO LOOK-@/

1ST ~2 WEEKS : CONTROL../

CHG'D METH'D SET UP & STAM-DUNK.

| SIGNATURE | TITLE |
|---|---|
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CEM4501

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STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

# RESIDENT ENGINEER'S DAILY REPORT
# ASST. RESIDENT ENGINEER'S DAILY REPORT

CEM-4501 (REV. 11/92) CT# 7541-3506-1

☐ RESIDENT ENGINEER'S DAILY REPORT - FILE CAT. 45

☒ ASST. RESIDENT ENGINEER'S DAILY REPORT - FILE CAT. 46

JOB STAMP

04-0120F4
04-SF-80-13.2/13.9
SF/0BB EAST SPANS SEISMIC SAFETY PROJECT (SELF ANCHORED SUSPENSION: TOWER AND SUPERSTRUCTURE).

| REPORT NO. 16 | DATE 8 24 08 | M T W T F S S (Circle Day) |
|---|---|---|
| SHIFT HOUR: START — STOP | TEMPERATURE MIN — MAX | |
| WEATHER | | |

(CONT'D)
TRAV'G STA. PC. & PRINT OF CONST SYNOPSIS: WORKS, "WORKS" → GETTING OUT OF SCRN (SLOTTY DED...)

ALSO: SCRN SIGNAL C UNIV W/ RSTR TRVL/ EA TRK DIFF T. W/ EA TRK...
→ W STD. DUPL...)
GET - MAP DWG

→ SCHEM.-02: EXIST PLATE / NO CONST SNS / STRUCTRAL - END OF TRAVEL.../ SCRN JACKS FULLY RETRACTED DOWN HARD ON STOPS.../ STALL OUT C MAX PRESS.../

→ SCHEM.-01 REVIEW...

• TAKE OUT: SCALE AT ON SIGNAL.../
→ E2/E3 SCHEM. - KEEP FOR REVIEW...

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| REPORT NO. | DATE | |
|---|---|---|
| 17 | 8 29 08 | M T W T F S S (Circle Day) |
| SHIFT HOUR: START — STOP | TEMPERATURE MIN — MAX | |
| WEATHER | | |

(CONT'D.)
VS. CONTROL SPEED @ BACK END OF ACTR
— OR @ CYLS... DIT ON UNIT, IT CAN CONTROL PRESS FLOW
EXH FLOW CONTROLS ON AIR MOTOR — DRAWINGS CHANGE
BREAKERS CHANGE SETTINGS...
CONTROL PRESS ↑ FLOW, LESS PROPENSITY FOR OPE
(d 30: EXH. FLOW CONTROL ⇔ LACK OF T/R INTO
CAVE-IN
LAST WEEK'S REPORT
"SAFETY" — WON'T TAKE AT
(d 30: CHANGES BEHAVIOR OF MOTOR
HOIST-DOWN MOTORS 15 M MOTORS
↓ 26 FPM

SCOTT: "SNAPPED" W/..
LARGER TORQUE ⇒ ↑ FLOW REQ'S ⇒ ↑ SPEED
↳ MAKE UP PROP.

ATES — NOT THRU - +VE DISPL? / VALVES LOOSE
GET PRESS DROP OF VOLUME...
↳ SCOTT: WILL RE) : 1 CTM @ FOR PRESS — ENTIVAL

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| | |
|---|---|
| REPORT NO. 13 | DATE 8 29 08 M T W T F S S (Circle Day) |
| SHIFT HOUR: START STOP | TEMPERATURE MIN MAX |
| WEATHER | |

(CONT'N.)

(251) SUMMARY: 1) TH
2) PILOT CONTROL W/ DN (WK
→ MT & MONDAY
→ DN (c) T. HO TO DOTTIE. & (c) CALL.
3) MX — (c) J.O.
4) MOVE ATG PLTFM R/ LOWER & T/SKEW
→ DISC. W/ TOM & GLENN...
— PILOT VALVE PICMTS ON SCHEM
(c) JO: SKEW SENSING
→ MONTHLY RESPONSE TO OPER ACTUATING
→ AGGRAVATE — CAT: NO MGS
→ GET COMPUTER TO E MCE ON PILOT CONTROL
→ T. HO: TEST TRACK & PROPER MANDATE; HAVN'T HEARD

1103

MOVE (CALL) 1100 & 1113 SPOT V E/M 1124

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| REPORT NO. | DATE | |
|---|---|---|
| ~~19~~ ? | 08 29 08 | M T W T F S S (Circle Day) |
| SHIFT HOUR: START ~~STOP~~ | TEMPERATURE ~~MIN~~ | ~~MAX~~ |
| WEATHER | | |

~~RMLV: JH 751 CA SZ DRAFT (RE) P/O/ <1125~~

~~C/O RCE DTRV DESK/ → GET E/M (#2) ATT RE P/O/ <1131~~

~~P/O/ → (C) LG: NT C/B CALTRANS/ → (E/M)/ <1146~~

~~(CALT)/ → (E/M)/ <1156~~

<1206
~~DJV (C) RAFAEL M.: DRAFT PREP'L/ VELOCITY 45 mm —~~
~~DJV (C) PAUL C. RUSH/ ILL ASK PAUL LL/ JUSTIFICATION FOR CCO/~~

~~MISC/ <1212 / (CALT)/ <1214 / E/M TT/ <1219 / (HN) (E/M)/~~ <1228
~~CLR: CCO/ <1221 / (C) WARREN S.C.: NOT LIKE FOR ME B4 N (ST. REC)/ → JENNY / BETTY: 1) HOSJV BB Q.../ 2) STEP UP → GARY/~~
LADDER CLR/ <1234

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| REPORT NO. 20 | DATE 08 29 08 M T W T F S S (Circle Day) |
|---|---|
| SHIFT HOUR: START STOP | TEMPERATURE MIN MAX |
| WEATHER | |

~~X~~/D RPT / <1246 / ~~X~~ RR R: CL M. TRAVIS TRN'L STAFF-TO BRNG BACK AFTER L.; <1250
→ WATT R: RFS (60'-2") LNZ'L TST & MACH.! / ~~X~~ ANCHR HEAD.. / 1250
~~X~~ PHIL L.L.

1) GET RFIS - CAT ONE : CRACKING!?
2) 45 MM SB. STAFF /
3)
4) 563
5) TU — KWONG'S QUOTE

APEX'T (ST.) / <1322 / ACCEPTED / <1315 / ~~X~~/D RPT. / <1324 / ACCEPTED / <1324
M (L) <1325
~~X~~ PL LAT ASA
Pty. 18/19.. / 0053 → 0059
↑ MOVED WHEN SKEW RMV'D. /
↑ ~~X~~/BSD
→ W/BSD. ?: NO MVT.

45 MM → 40 MM: C/S @ STOP — 6 MM: "AS BUILT"
→ RPCA (MAT BY 6 MM...)

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| REPORT NO. 21 | DATE 4 29 08 M T W T F S S (Circle Day) |
|---|---|
| SHIFT HOUR: START ___ STOP ___ | TEMPERATURE MIN ___ MAX ___ |
| WEATHER ___ | |

(CONT'D)

→ (C) J/ FOR'A: ⊂ DRILL B/ W/ DOT.. j

4544

→ (L) j → SPOT W F/M → MISC. ⊂ 1349 / ⊂ 1350 // ATTACH / ⊂ 1401

~~1357~~ ⊂ 1357

X FOR: 1) SM. ⊂ 237-R1 / R4 (⊂ 9944-S1?) / TRAN. MOTOR ONE SIDE ONLY OF C/TRAY (⊂ 1 NUKE T. ⊂ DOT ⊂ 1 PB..) ! ⟺ TAP MOTOR FURTHER W/ TANTAY..j

2) ≠ 237 (CHECK)!?! j 3) THX. FOR POC! j 4) OF R HEIGHT.. j

⊂ 1357

⊂ 1415

X ⊂ (L: ⊂ J) j → DMR / (CHECK) / X → ATM S/ j → VAC'N j → DOT ⊂ RM j → JUMP DRIVE → F/M 1) W/ 2) OT SL DRAFT MC

→ F/M: CONCURS W/ DRAFT OT SL — LK. UP TO FAB R / DET R⊂ OR, MARK "ALL" (ABR ICE EST) j ICE EARLY IL ⊂ MG TOO ... j NO MORE O.T. j

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| REPORT NO. 227 | DATE 4 29 08 M T W T F S S (Circle Day) |
|---|---|
| SHIFT HOUR: START — STOP — | TEMPERATURE MIN — MAX — |
| WEATHER — | |

(CONT'D)

→ DJV (c) RM: I'LL BRING JUMP DR.

→ UNREAD.

→ RE R.F.I. 1) NO FWD (c) MARK T. ⇒ DOC NEXT WK ⇒ DOCS TO ME THEN... 2) NO VAC NEXT WK THOUGH LATE NEXT FRI...

→ UNREAD.

<1425

[DJV (c) MEX ES.] → DJV (c) RM, CC) GB) → PLL) + AP) → BJB)

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| REPORT NO. 23 | DATE 4 29 08 M T W T F S S (Circle Day) |
|---|---|
| SHIFT HOUR: START 7 STOP — | TEMPERATURE MIN — MAX — |
| WEATHER | |

* (KAUT) 4592
* BCE (B-BeAr) + BCE (ARCH S-L) + TE (ARCH P.) + (c) WSC)
  * E/M (ST.)
* S/D: TWR, E/M) TE (A/N) 4032 + (CAUT) 1657
  br) + (c) WSC: (WSB) 3) #AR TE.T) 4695

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