```
** STAN FRAME ** <BCJ-DEN 20>   -    -    -   -G816-   * ISEZAKI SUISANREIZOKO(2)          DATE=80-09-17 TIME=14-23-03
** TYPE NO. 0- 0 **                                                                       * MAIN FRAME DESIGN * PAGE   1

**  1 - FRAME

** MAIN FRAME LOAD CONDITION           NOTE      CASE       G  GLOBAL CO-ORDINATE    W-TYPE   1  UNIFORM LOAD     2  KAMENOKO
                                                            L  LOCAL  CO-ORDINATE             3  KAMENOKO -1      4  KAMENOKO -2
                                                                                              5  KAMENOKO -3
                                                 DIRECTION  X  X-DIRECTION LOAD
                                                            Z  Z-DIRECTION LOAD

   * DEAD+LIV LOAD

      MEMBER FORCE  M2MBER  CASE  DIREC   W       W             CONCENTRATED FORCE (T, M)
                     I - J        -TION  TYPE                      P1      L1      P2      L2      P3      L3      P4      L4      P5      L5
                                                                   P6      L6      P7      L7      P8      L8      P9      L9      P10     L10

                     6   7    G     Z     1    -0.23 T/M
                     7   8    G     Z     1    -0.23 T/M
                     8   9    G     Z     1    -0.23 T/M
                     9  10    G     Z     1    -0.23 T/M

   * SNOW     LOAD

      MEMBER FORCE  MEMBER  CASE  DIREC   W       W             CONCENTRATED FORCE (T, M)
                     I - J        -TION  TYPE                      P1      L1      P2      L2      P3      L3      P4      L4      P5      L5
                                                                   P6      L6      P7      L7      P8      L8      P9      L9      P10     L10

                     6   7    G     Z     1    -0.23 T/M
                     7   8    G     Z     1    -0.23 T/M
                     8   9    G     Z     1    -0.23 T/M
                     9  10    G     Z     1    -0.23 T/M

   * WIND (R) LOAD

      MEMBER FORCE  MEMBER  CASE  DIREC   W       W             CONCENTRATED FORCE (T, M)
                     I - J        -TION  TYPE                      P1      L1      P2      L2      P3      L3      P4      L4      P5      L5
                                                                   P6      L6      P7      L7      P8      L8      P9      L9      P10     L10

                     6   7    L     Z     1     1.00 T/M
                     7   8    L     Z     1     1.00 T/M
                     8   9    L     Z     1     1.00 T/M
                     9  10    L     Z     1     1.00 T/M

   * SEIS (R) LOAD

      JOINT FORCE  NODE   H-FORCE    V-FORCE    MOMENT           NODE   H-FORCE    V-FORCE    MOMENT
                   NO.     (T)        (T)       (T.M)            NO.     (T)        (T)       (T.M)

                    1      0.00       0.00       0.00             2      0.00       0.00       0.00
                    3      0.00       0.00       0.00             4      0.00       0.00       0.00
                    5      0.00       0.00       0.00             6      0.91       0.00       0.00
                    7      0.00       0.00       0.00             8      0.00       0.00       0.00
                    9      0.00       0.00       0.00            10      0.91       0.00       0.00
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No. 51

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** MAIN FRAME COMBINED LOAD CONDITION                          NOTE     LOADING     L     LONG  TERM
                                                                          TERM      S     SHORT TERM

      LOAD  LOADING
       NO.    TERM

        1      (L)    DEAD+LIV

        2      (S)    DEAD+LIV + 1.00*SNOW

        3      (S)    DEAD+LIV + 1.00*WIND (R)

        4      (S)    DEAD+LIV + 1.00*SEIS (R)
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No. 82

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** MAIN FRAME NODAL POINT DISPLACEMENT TABLE (FOR COMBINED LOAD)

**  1 - FRAME

    NODE   LOAD    X- DISP.     Z- DISP.    Y- ROTAT.         LOAD    X- DISP.     Z- DISP.    Y- ROTAT.
     NO.    NO.     (CM)         (CM)       (RADIAN)           NO.     (CM)         (CM)       (RADIAN)

      1      1      0.00         0.00        -0.00              2      0.00         0.00        -0.00
             3      0.00         0.00         0.00              4      0.00         0.00         0.01

      2      1      0.00         0.00         0.00              2      0.00         0.00         0.00
             3      0.00         0.00        -0.00              4      0.00         0.00         0.02

      3      1      0.00         0.00        -0.00              2      0.00         0.00        -0.00
             3      0.00         0.00        -0.00              4      0.00         0.00         0.02

      4      1      0.00         0.00        -0.00              2      0.00         0.00        -0.00
             3      0.00         0.00         0.00              4      0.00         0.00         0.01

      5      1      0.00         0.00         0.00              2      0.00         0.00         0.00
             3      0.00         0.00        -0.00              4      0.00         0.00         0.02

      6      1      0.00        -0.01         0.00              2      0.00        -0.01         0.01
             3     -0.01         0.02        -0.01              4      5.28        -0.00         0.01

      7      1      0.00        -0.01        -0.00              2      0.00        -0.03        -0.00
             3     -0.00         0.05         0.00              4      5.27        -0.02         0.00

      8      1     -0.00        -0.01        -0.00              2     -0.00        -0.03        -0.00
             3     -0.00         0.04         0.00              4      5.26        -0.01         0.00

      9      1     -0.00        -0.01         0.00              2     -0.00        -0.03         0.00
             3      0.00         0.05        -0.00              4      5.27        -0.01         0.00

     10      1     -0.00        -0.01        -0.00              2     -0.00        -0.01        -0.01
             3      0.01         0.02         0.01              4      5.27        -0.01        -0.00
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** STAN FRAME ** <BCJ-DEN 20>  -   -   -   -G616-   * ISEZAKI SUISANREIZOKO(2)                DATE=80-09-17 TIME=14-23-03
** TYPE NO. 0- 0 **                                                                    * MAIN FRAME DESIGN * PAGE    5

** MAIN FRAME MEMBER END STRESS TABLE

**  I - FRAME

   MEMBER     LOAD          AXIAL       SHEAR      MOMENT       AXIAL       SHEAR      MOMENT
   I   J      NAME           (I)         (I)         (I)         (J)         (J)         (J)
                            (TON)       (TON)       (T.M)       (TON)       (TON)       (T.M)

   1   6   DEAD+LIV          0.97       -0.12        0.00       -0.97        0.12        0.58
           SNOW              0.97       -0.12        0.00       -0.97        0.12        0.58
           WIND (R)         -4.23        0.51       -0.00        4.23       -0.51       -2.53
           SEIS (R)         -0.28        0.32       -0.00        0.28       -0.32       -1.62

   2   7   DEAD+LIV          2.52        0.02       -0.00       -2.52       -0.02       -0.12
           SNOW              2.52        0.02       -0.00       -2.52       -0.02       -0.12
           WIND (R)        -10.96       -0.10        0.00       10.96        0.10        0.52
           SEIS (R)          0.10        0.40       -0.00       -0.10       -0.40       -1.98

   3   8   DEAD+LIV          2.21       -0.00        0.00       -2.21        0.00        0.00
           SNOW              2.21       -0.00        0.00       -2.21        0.00        0.00
           WIND (R)         -9.60       -0.00        0.00        9.60        0.00        0.00
           SEIS (R)         -0.00        0.38       -0.00        0.00       -0.38       -1.89

   4   9   DEAD+LIV          2.52       -0.02        0.00       -2.52        0.02        0.12
           SNOW              2.52       -0.02        0.00       -2.52        0.02        0.12
           WIND (R)        -10.96        0.10       -0.00       10.96       -0.10       -0.52
           SEIS (R)         -0.10        0.40       -0.00        0.10       -0.40       -1.98

   5  10   DEAD+LIV          0.97        0.12       -0.00       -0.97       -0.12       -0.58
           SNOW              0.97        0.12       -0.00       -0.97       -0.12       -0.58
           WIND (R)         -4.23       -0.51        0.00        4.23        0.51        2.53
           SEIS (R)          0.28        0.32       -0.00       -0.28       -0.32       -1.62

   6   7   DEAD+LIV          0.12        0.97       -0.58       -0.12        1.33        2.34
           SNOW              0.12        0.97       -0.58       -0.12        1.33        2.34
           WIND (R)         -0.51       -4.23        2.53        0.51       -5.77      -10.18
           SEIS (R)          0.59       -0.28        1.62       -0.59        0.28        1.16

   7   8   DEAD+LIV          0.09        1.20       -2.22       -0.09        1.10        1.77
           SNOW              0.09        1.20       -2.22       -0.09        1.10        1.77
           WIND (R)         -0.40       -5.20        9.66        0.40       -4.80       -7.68
           SEIS (R)          0.19       -0.18        0.82       -0.19        0.18        0.94

   8   9   DEAD+LIV          0.09        1.10       -1.77       -0.09        1.20        2.22
           SNOW              0.09        1.10       -1.77       -0.09        1.20        2.22
           WIND (R)         -0.40       -4.80        7.68        0.40       -5.20       -9.66
           SEIS (R)         -0.19       -0.18        0.94        0.19        0.18        0.82

   9  10   DEAD+LIV          0.12        1.33       -2.34       -0.12        0.97        0.58
           SNOW              0.12        1.33       -2.34       -0.12        0.97        0.58
           WIND (R)         -0.51       -5.77       10.18        0.51       -4.23       -2.53
           SEIS (R)         -0.58       -0.28        1.16        0.58        0.28        1.62
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No. 54

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** MAIN FRAME STRESS AND DEFLECTION TABLE (FOR COMBINED LOAD)

** 1 - FRAME

   MEMBER   LOAD       AXIAL     SHEAR     MOMENT     AXIAL     SHEAR     MOMENT          DEFLECTION
   I - J    NO.         (I)       (I)       (I)        (J)       (J)       (J)
                       (TON)     (TON)     (T.M)      (TON)     (TON)     (T.M)     (L/DELT.)        (CM)

   1   6     1          0.97     -0.12      0.00      -0.97      0.12      0.58      1891.53         0.264
             2          1.95     -0.23      0.00      -1.95      0.23      1.17       945.77         0.529
             3         -3.26      0.39     -0.00       3.26     -0.39     -1.95       565.00        -0.885
             4          0.70      0.21     -0.00      -0.70     -0.21     -1.04      1057.85        -0.473

   2   7     1          2.52      0.02     -0.00      -2.52     -0.02     -0.12      9154.12        -0.055
             2          5.04      0.05     -0.00      -5.04     -0.05     -0.24      4577.06        -0.109
             3         -8.44     -0.08     -0.00       8.44      0.08      0.40      2734.33         0.183
             4          2.62      0.42     -0.00      -2.62     -0.42     -2.10       524.17        -0.954

   3   8     1          2.21     -0.00      0.00      -2.21      0.00      0.00         0.00         0.000
             2          4.42     -0.00      0.00      -4.42      0.00      0.00         0.00         0.000
             3         -7.39     -0.00      0.00       7.39      0.00      0.00         0.00         0.000
             4          2.21      0.38     -0.00      -2.21     -0.38     -1.89       583.84        -0.856

   4   9     1          2.52     -0.02      0.00      -2.52      0.02      0.12      9154.08         0.055
             2          5.04     -0.05      0.00      -5.04      0.05      0.24      4577.04         0.109
             3         -8.44      0.08      0.00       8.44     -0.08     -0.40      2734.33        -0.183
             4          2.42      0.37     -0.00      -2.42     -0.37     -1.86       591.96        -0.345

   5  10     1          0.97      0.12     -0.00      -0.97     -0.12     -0.58      1891.54        -0.264
             2          1.95      0.23     -0.00      -1.95     -0.23     -1.17       945.77        -0.529
             3         -3.26     -0.39      0.00       3.26      0.39      1.95       565.00         0.885
             4          1.25      0.44     -0.00      -1.25     -0.44     -2.21       499.34        -1.001

   6   7     1          0.12      0.97     -0.58      -0.12      1.33      2.34      1110.33        -0.901
             2          0.23      1.95     -1.17      -0.23      2.65      4.69       555.17        -1.801
             3         -0.39     -3.26      1.95       0.39     -4.44     -7.84       331.66         3.015
             4          0.70      0.70      1.04      -0.70      1.60      3.50       893.04        -1.120

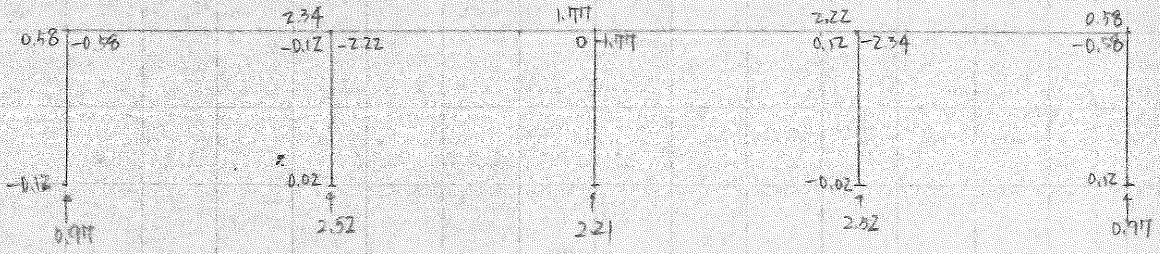
   7   8     1          0.09      1.20     -2.22      -0.09      1.10      1.77      2499.74        -0.400
             2          0.18      2.39     -4.44      -0.18      2.21      3.53      1249.88        -0.800
             3         -0.31     -4.00      7.44       0.31     -3.70     -5.91       746.68         1.339
             4          0.28      1.02     -1.40      -0.28      1.28      2.71      2914.14        -0.343

   8   9     1          0.09      1.10     -1.77      -0.09      1.20      2.22      2499.74        -0.400
             2          0.18      2.21     -3.53      -0.18      2.39      4.44      1249.88        -0.800
             3         -0.31     -3.70      5.91       0.31     -4.00     -7.44       746.68         1.339
             4         -0.10      0.93     -0.82       0.10      1.37      3.05      2188.47        -0.457

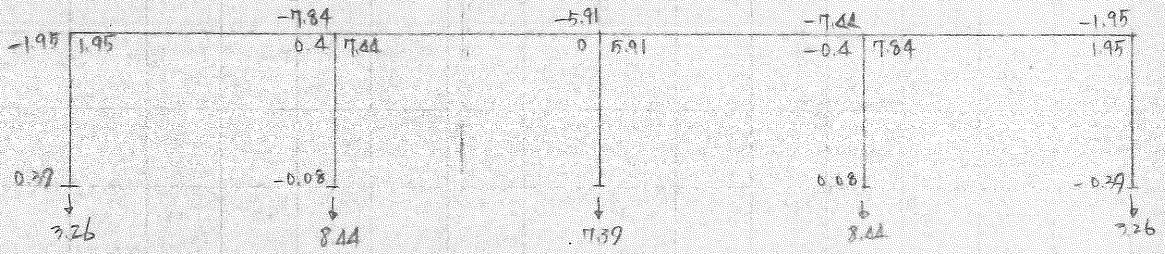
   9  10     1          0.12      1.33     -2.34      -0.12      0.97      0.58      1110.33        -0.901
             2          0.23      2.65     -4.69      -0.23      1.95      1.17       555.17        -1.801
             3         -0.39     -4.44      7.84       0.39     -3.26     -1.95       331.66         3.015
             4         -0.47      1.05     -1.18       0.47      1.25      2.21      1467.32        -0.682
```

応力図

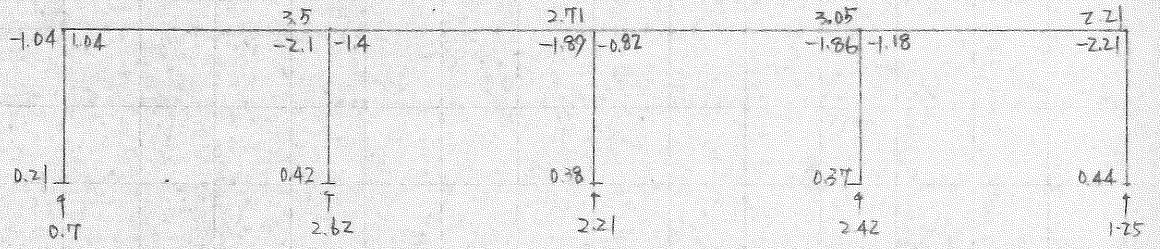
1) VERT.



3) V+WIND



4) V+SEIS



[redacted]

No 57

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** STAN FRAME ** <BCJ-DEN 20>   -    -    -   -G816-   * ISEZAKI SUISANREIZOKO(2)            DATE=80-09-17 TIME=14-23-03
** TYPE NO. 0- 0 **                                                                     * MAIN FRAME DESIGN * PAGE    8

** MAIN FRAME REACTION TABLE (FOR COMBINED LOAD)

**  1 - FRAME

      NODE    LOAD    H.FORCE      V.FORCE       MOMENT                      NODE    LOAD    H.FORCE      V.FORCE       MOMENT
       NO.     NO.      (TON)        (TON)        (T.M)                       NO.     NO.      (TON)        (TON)        (T.M)

        1       1        0.12         0.97         0.00                        2       1       -0.02         2.52         0.00
                2        0.23         1.95         0.00                                2       -0.05         5.04         0.00
                3       -0.39        -3.26         0.00                                3        0.08        -8.44         0.00
                4       -0.21         0.70         0.00                                4       -0.42         2.62         0.00

        3       1        0.00         2.21         0.00                        4       1        0.02         2.52         0.00
                2        0.00         4.42         0.00                                2        0.05         5.04         0.00
                3        0.00        -7.39         0.00                                3       -0.08        -8.44         0.00
                4       -0.38         2.21         0.00                                4       -0.37         2.42         0.00

        5       1       -0.12         0.97         0.00
                2       -0.23         1.95         0.00
                3        0.39        -3.26         0.00
                4       -0.44         1.25         0.00
```

No. 58