Brotherhood of Locomotive Engineers

GENERAL COMMITTEE OF ADJUSTMENT
BNSF/MRL
801 CHERRY STREET, SUITE 1010
FT. WORTH, TX 76102
TEL (817) 338-9010 • FAX (817) 338-9088

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VICE CHAIRMEN
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S. J. BRATKA
D. W. MAY

MONTANA RAIL LINK

J. H. NELSON
SECRETARY-TREASURER
4237 ORCHARD DRIVE
GALESBURG, IL 61401

ALL LOCAL CHAIRMEN
BNSF NORTHLINES/MRL

February 21, 2003
File: Event Recorders/Auto Scan

Dear Sirs and Brothers:

Attached you will find a Carrier provided presentation describing the Carrier's program for automatically downloading event recorder data from the locomotive fleet. The document is self explanatory and most of you are familiar with the program, but we are providing it so that you are completely aware of all that comes with it.

Although we have been aware for some time that event recorder data was being retrieved on the fly so to speak, we were just recently apprised of what the Carrier intended to do with that data once retrieved. In the past few weeks, we received several complaints that local Carrier Officers were printing exceptions noted from the auto scan data, and posting them publicly at on duty locations with the involved employees names included. We also received complaints that letters were being sent at some locations threatening disciplinary action if specific levels of train handling improvement were not achieved in short order. Unfortunately the auto scan data was not always thoroughly screened for accuracy, before either of these handling methods were initiated and several engineers were confronted even though they could not be shown to have even participated in a train handling exception.

After receiving the complaints, Vice General Chairman Bratka and I brought the matter to Vice President Dealy at our most recent SACP meeting for discussion. We expressed our opinion that the Carrier's method of utilizing the auto scan data was inconsistent with not only the spirit of our Safety Summit Agreement, but was also accomplishing little besides humiliating and alienating employees. We suggested that if improved train handling, based on the Carrier's definitions and instructions, was the true goal, then hands on interaction with those alleged to have participated in a train handling violation would certainly be the preferred method or practice.

During our discussions, Vice President Dealy agreed that the public posting of the auto scan data would be discontinued, and also that the letters being sent to engineers would be revisited for content. That said, I would also offer that Vice President Dealy and the other Carrier Officers present made it very clear that those employees who did not respond to their suggested method of handling would eventually come under increased scrutiny. Fuel conservation is one of the Carrier's primary goals this year and they made it quite clear that continued power braking exceptions will not go unnoticed.

Also as part of our discussions, we agreed that we would forward the attached documentation with a clear explanation of the program. Make no mistake, whether you call this technology "big brother" or not, event recorder data is being retrieved on the fly, and in some cases, is being reviewed here in Ft. Worth before you even complete your trip. The involved computer program auto generates a list of train handling exceptions from the data and this list is then distributed. We have asked that the Carrier use this data to insure that all involved engineers are advised of the Carrier's preferred train handling methods, rather than assessing, or threatening to assess, discipline as a first choice. For now the Carrier has agreed.

At our meeting, we passed on what some of you have stated, just tell us what you want and in most cases you will get it. We are operating the Carrier's equipment on the Carrier's tracks and once we are advised of the Carrier's train handling expectations, we should make every effort to be in compliance and I am sure that you all will. Although we know that each trip comes with its unique train handling events, those that necessitate something that would be out of compliance with the Carrier's instructions and make any exception list should be not only minimal, but explainable.

Please make every effort to distribute this information; our goal is to make sure that all engineers are aware of the Carrier's train handling expectations. If there are any questions concerning these expectations, please apply to your local Road Foreman for further instructions. If there are any further problems or concerns with local handling of the auto scan data, please contact the Office.

Fraternally,

Dennis R. Pierce
General Chairman

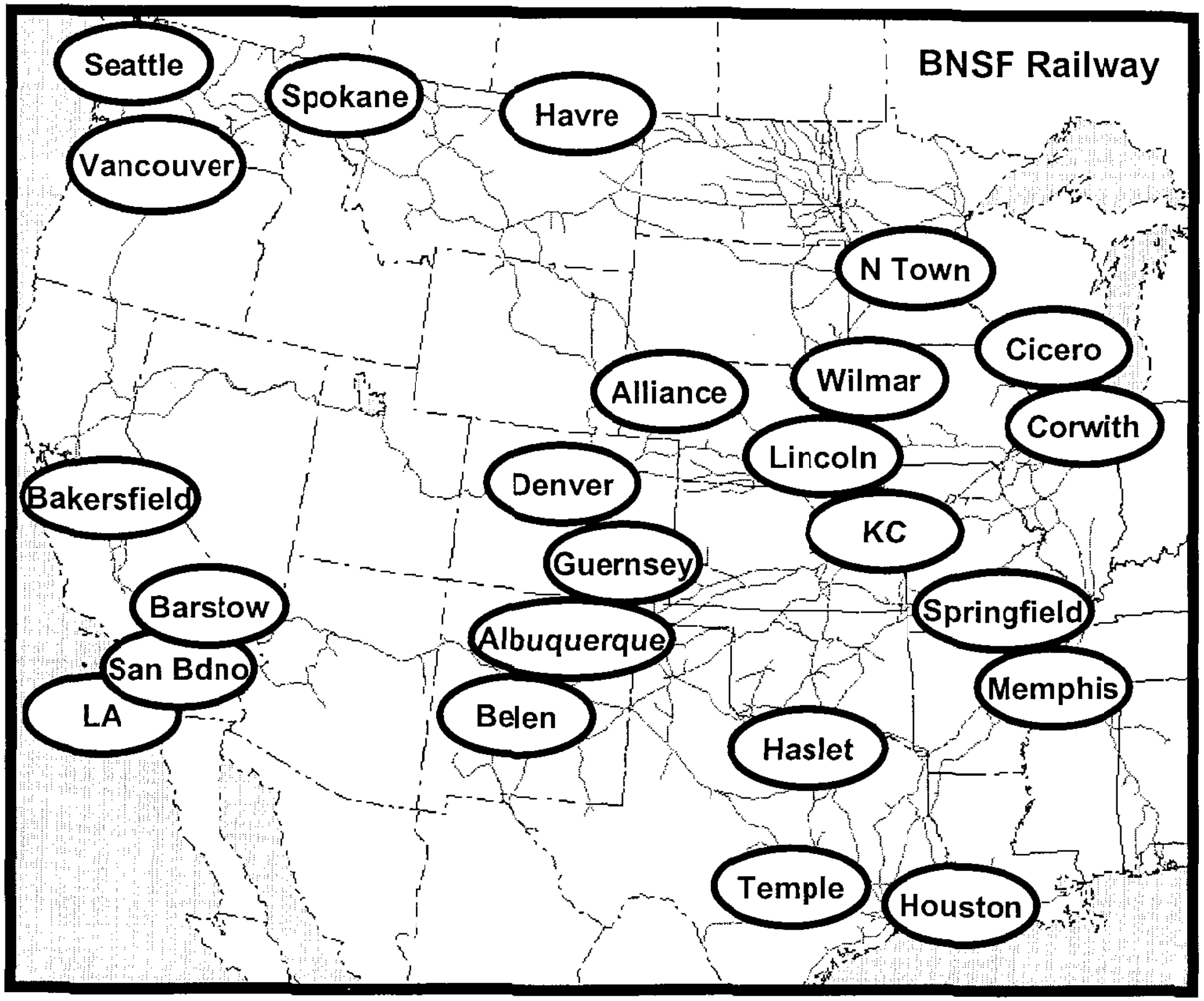
cc: BLE General Chairmen, BNSF
Steve Speagle, Assigned Vice President, BLE
Don Hahs, International President, BLE

BNSF

BNSF Event Recorder Automation

John M. Quilty
AVP - Operating Practices
Burlington Northern and Santa Fe

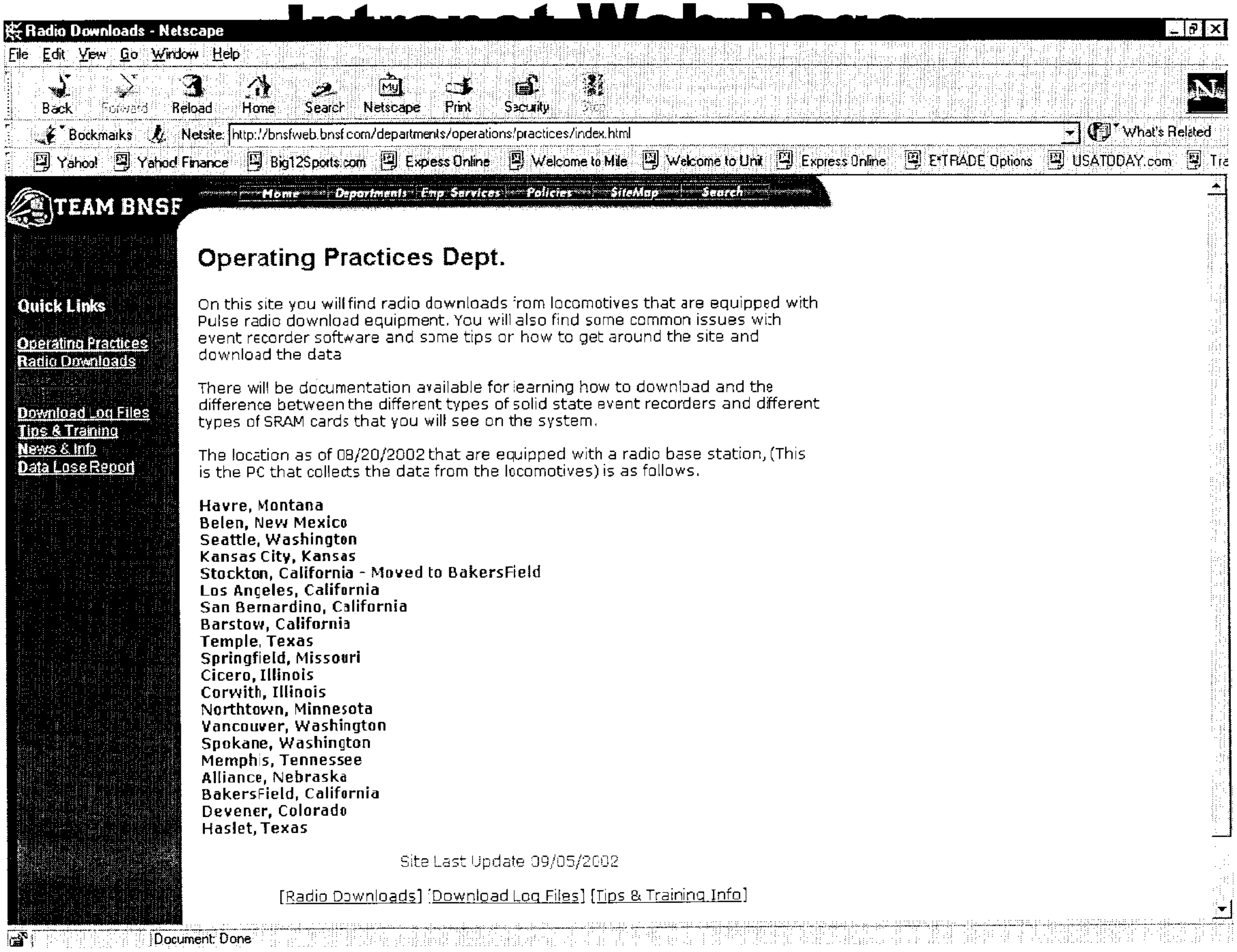
Current BNSF Wireless Base Stations


BNSF Railway
Seattle
Spokane
Havre
Vancouver
N Town
Cicero
Wilmar
Alliance
Corwith
Lincoln
Denver
Bakersfield
KC
Guernsey
Barstow
Springfield
Albuquerque
San Bdno
Memphis
LA
Belen
Haslet
Temple
Houston

Locomotives With Wireless Download Event Recorders

• C40-8W & C44-9W (Qtron) -	94
• C44-9W (Wabtec) -	1,340
• SD70MAC (Wabtec) -	85
Total:	1,519

BNSF Operating Practices
Intranet Web Page


Radio Downloads - Netscape
File Edit View Go Window Help
Back Forward Reload Home Search Netscape Print Security Stop
Bookmarks Netsite: http://bnsfweb.bnsf.com/departments/operations/practices/index.html
What's Related
Yahoo! Yahoo! Finance Big12Sports.com Express Online Welcome to Mile Welcome to Unit Express Online E*TRADE Options USATODAY.com
TEAM BNSF
Home Departments Emp Services Policies SiteMap Search
Quick Links
Operating Practices
Radio Downloads
Download Log Files
Tips & Training
News & Info
Data Lose Report
Document: Done

Operating Practices Dept.

On this site you will find radio downloads from locomotives that are equipped with Pulse radio download equipment. You will also find some common issues with event recorder software and some tips on how to get around the site and download the data

There will be documentation available for learning how to download and the difference between the different types of solid state event recorders and different types of SRAM cards that you will see on the system.

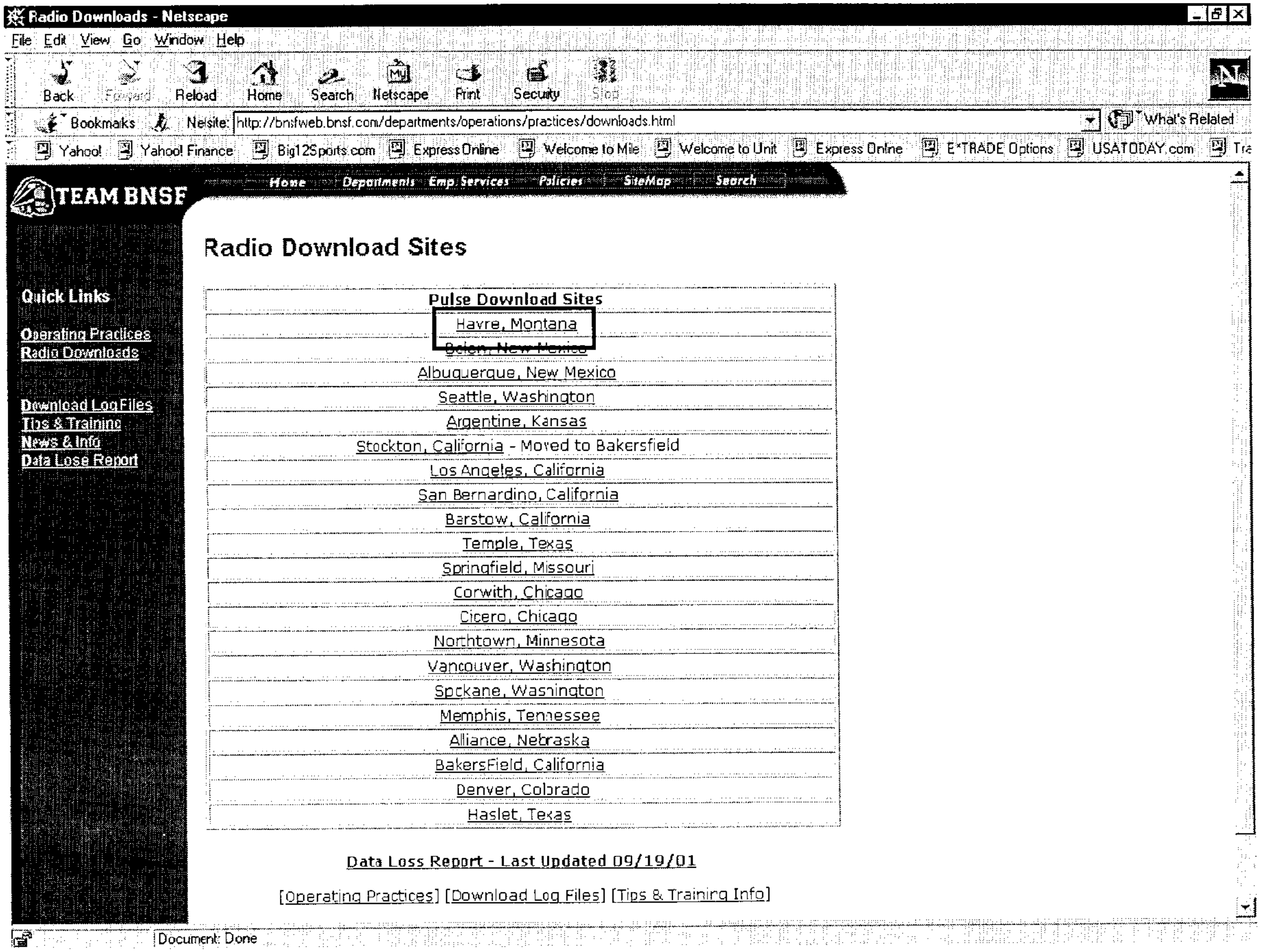
The location as of 08/20/2002 that are equipped with a radio base station, (This is the PC that collects the data from the locomotives) is as follows.

Havre, Montana
Belen, New Mexico
Seattle, Washington
Kansas City, Kansas
Stockton, California - Moved to BakersField
Los Angeles, California
San Bernardino, California
Barstow, California
Temple, Texas
Springfield, Missouri
Cicero, Illinois
Corwith, Illinois
Northtown, Minnesota
Vancouver, Washington
Spokane, Washington
Memphis, Tennessee
Alliance, Nebraska
BakersField, California
Devener, Colorado
Haslet, Texas

Site Last Update 09/05/2002

[Radio Downloads] [Download Log Files] [Tips & Training Info]

Accessing Wireless Download Data
Go To Base Station Location ID


Radio Downloads - Netscape
File Edit View Go Window Help
Back Forward Reload Home Search Netscape Print Security Stop
Bookmarks
What's Related
Yahoo! Yahoo! Finance Big12Sports.com Express Online Welcome to Mile Welcome to Unit Express Online E*TRADE Options USATODAY.com Tra
TEAM BNSF
Home Departments Emp. Services Policies SiteMap Search
Quick Links
Operating Practices
Radio Downloads
Download Log Files
Tips & Training
News & Info
Data Lose Report
Document: Done

Netsite: http://bnsfweb.bnsf.com/departments/operations/practices/downloads.html

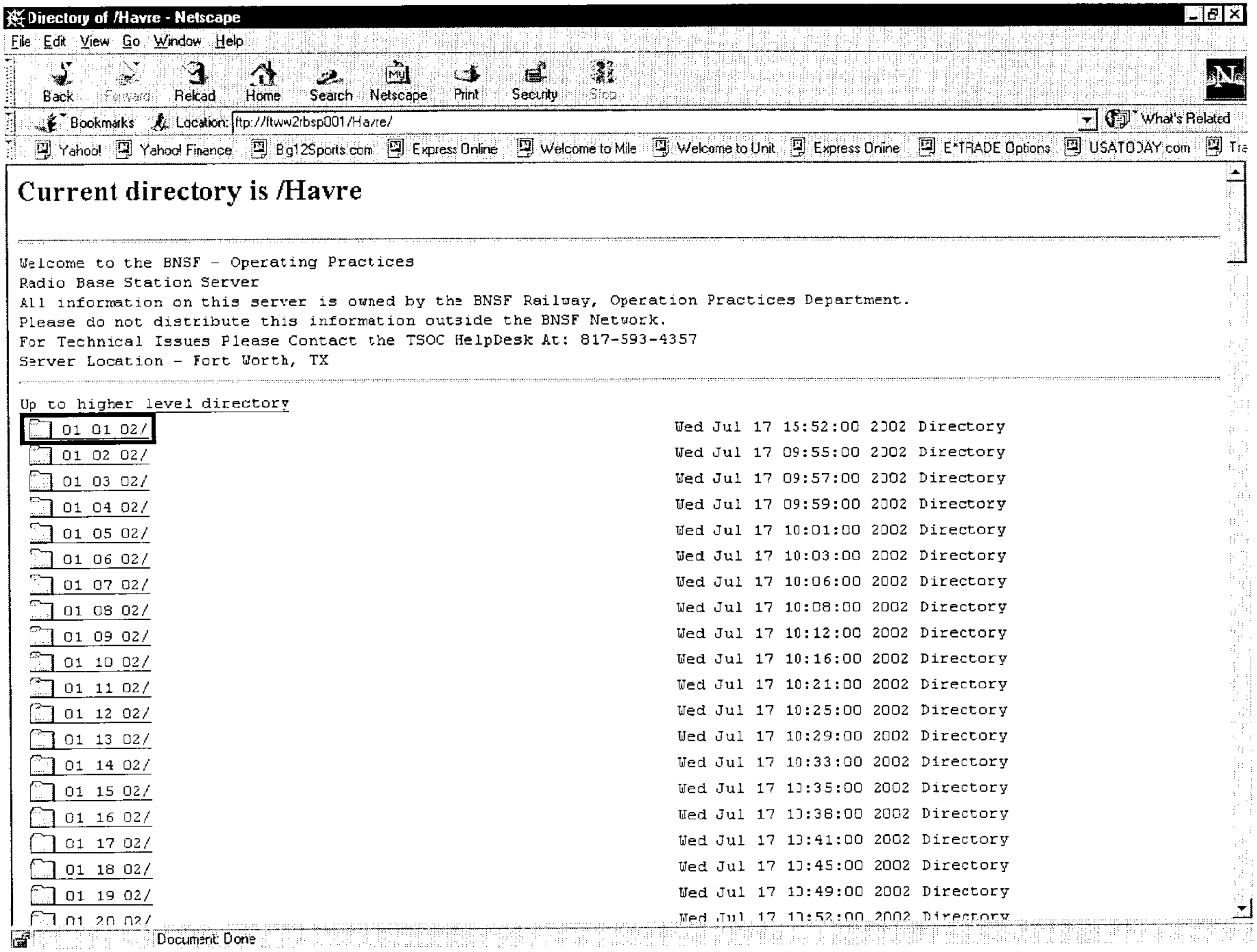
Radio Download Sites

Pulse Download Sites
Havre, Montana
Belen, New Mexico
Albuquerque, New Mexico
Seattle, Washington
Argentine, Kansas
Stockton, California - Moved to Bakersfield
Los Angeles, California
San Bernardino, California
Barstow, California
Temple, Texas
Springfield, Missouri
Corwith, Chicago
Cicero, Chicago
Northtown, Minnesota
Vancouver, Washington
Spokane, Washington
Memphis, Tennessee
Alliance, Nebraska
BakersField, California
Denver, Colorado
Haslet, Texas

Data Loss Report - Last Updated 09/19/01

[Operating Practices] [Download Log Files] [Tips & Training Info]

Downloads Grouped by Date

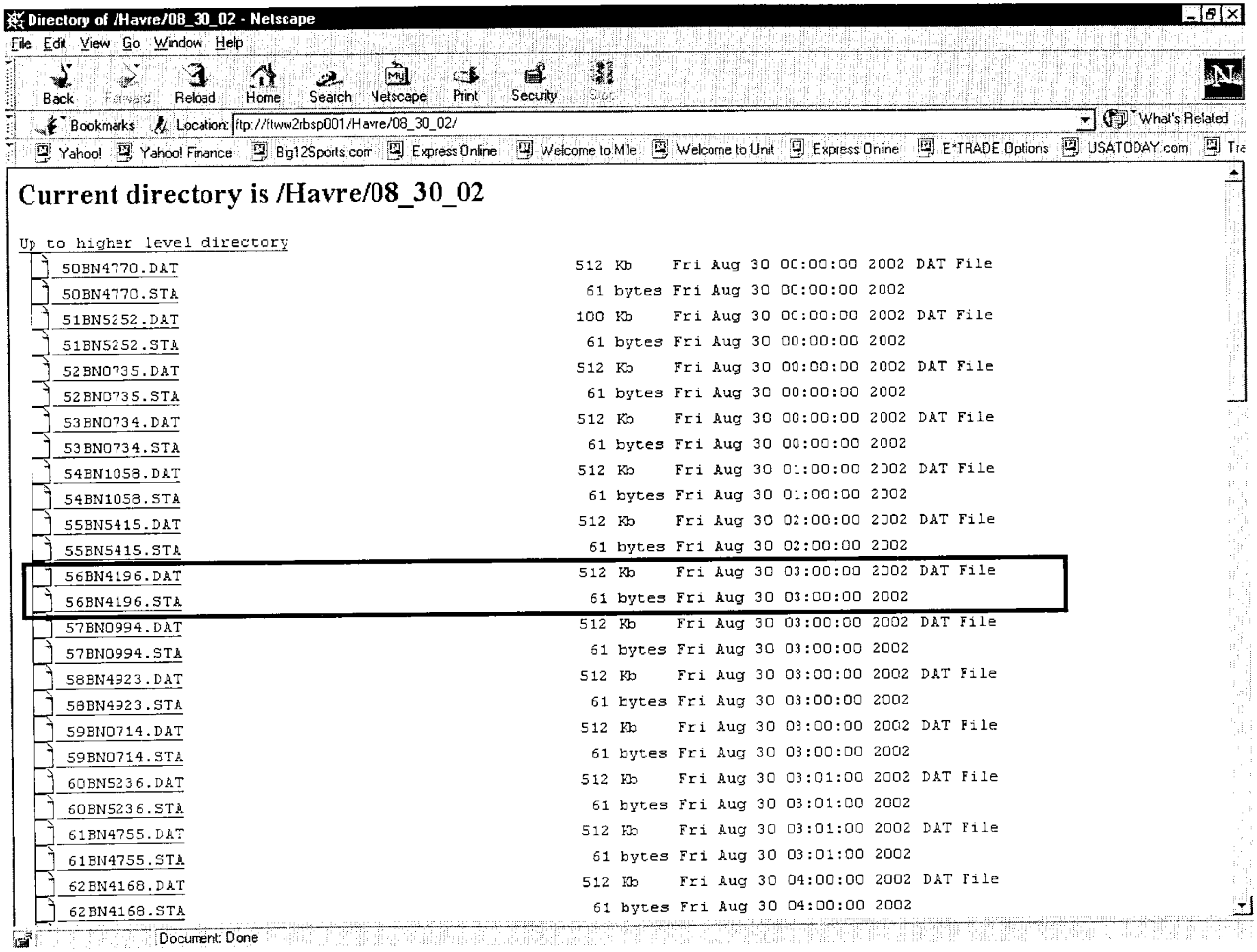

Directory of /Havre - Netscape
File Edit View Go Window Help
Back Forward Reload Home Search Netscape Print Security Stop
Bookmarks Location: ftp://ftww2rbsp001/Havre/
What's Related
Yahoo! Yahoo! Finance Big12Sports.com Express Online Welcome to Mile Welcome to Unit Express Online E*TRADE Options USATODAY.com Tra
Document: Done

Current directory is /Havre

```
Welcome to the BNSF - Operating Practices
Radio Base Station Server
All information on this server is owned by the BNSF Railway, Operation Practices Department.
Please do not distribute this information outside the BNSF Network.
For Technical Issues Please Contact the TSOC HelpDesk At: 817-593-4357
Server Location - Fort Worth, TX
```

```
Up to higher level directory
01 01 02/                                  Wed Jul 17 15:52:00 2002 Directory
01 02 02/                                  Wed Jul 17 09:55:00 2002 Directory
01 03 02/                                  Wed Jul 17 09:57:00 2002 Directory
01 04 02/                                  Wed Jul 17 09:59:00 2002 Directory
01 05 02/                                  Wed Jul 17 10:01:00 2002 Directory
01 06 02/                                  Wed Jul 17 10:03:00 2002 Directory
01 07 02/                                  Wed Jul 17 10:06:00 2002 Directory
01 08 02/                                  Wed Jul 17 10:08:00 2002 Directory
01 09 02/                                  Wed Jul 17 10:12:00 2002 Directory
01 10 02/                                  Wed Jul 17 10:16:00 2002 Directory
01 11 02/                                  Wed Jul 17 10:21:00 2002 Directory
01 12 02/                                  Wed Jul 17 10:25:00 2002 Directory
01 13 02/                                  Wed Jul 17 10:29:00 2002 Directory
01 14 02/                                  Wed Jul 17 10:33:00 2002 Directory
01 15 02/                                  Wed Jul 17 10:35:00 2002 Directory
01 16 02/                                  Wed Jul 17 10:38:00 2002 Directory
01 17 02/                                  Wed Jul 17 10:41:00 2002 Directory
01 18 02/                                  Wed Jul 17 10:45:00 2002 Directory
01 19 02/                                  Wed Jul 17 10:49:00 2002 Directory
01 20 02/                                  Wed Jul 17 10:52:00 2002 Directory
```

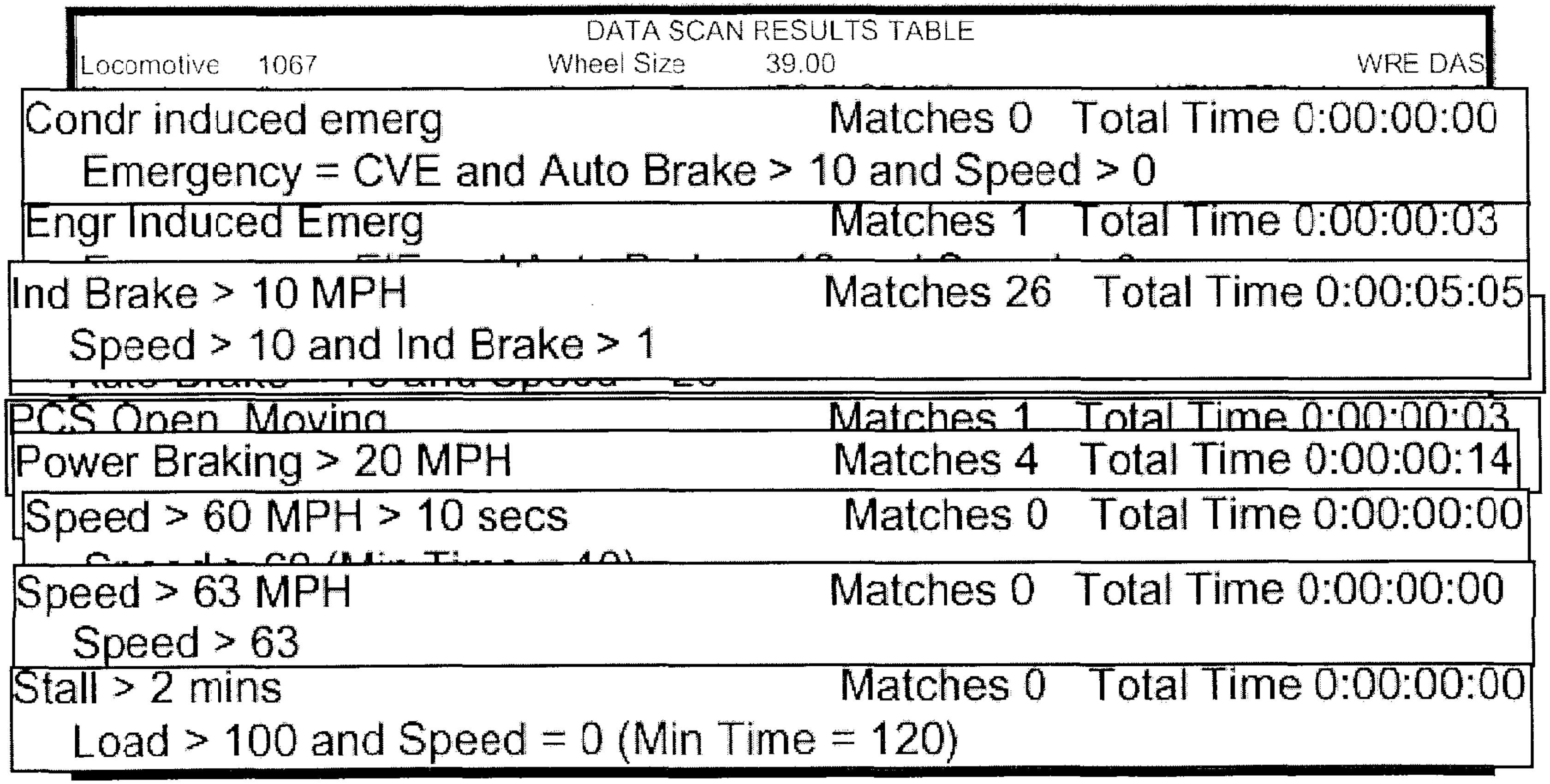
Two-Part File for Each Download (.dat & .sta)


Directory of /Havre/08_30_02 - Netscape
File Edit View Go Window Help
Back Forward Reload Home Search Netscape Print Security Stop
Bookmarks Location: ftp://ftww2rbsp001/Havre/08_30_02/
What's Related
Yahoo! Yahoo! Finance Big12Sports.com Express Online Welcome to Mle Welcome to Unit Express Online E*TRADE Options USATODAY.com Tra
Document: Done

Current directory is /Havre/08_30_02

```
Up to higher level directory
 50BN4770.DAT                512 Kb    Fri Aug 30 00:00:00 2002 DAT File
 50BN4770.STA                 61 bytes Fri Aug 30 00:00:00 2002
 51BN5252.DAT                100 Kb    Fri Aug 30 00:00:00 2002 DAT File
 51BN5252.STA                 61 bytes Fri Aug 30 00:00:00 2002
 52BN0735.DAT                512 Kb    Fri Aug 30 00:00:00 2002 DAT File
 52BN0735.STA                 61 bytes Fri Aug 30 00:00:00 2002
 53BN0734.DAT                512 Kb    Fri Aug 30 00:00:00 2002 DAT File
 53BN0734.STA                 61 bytes Fri Aug 30 00:00:00 2002
 54BN1058.DAT                512 Kb    Fri Aug 30 01:00:00 2002 DAT File
 54BN1058.STA                 61 bytes Fri Aug 30 01:00:00 2002
 55BN5415.DAT                512 Kb    Fri Aug 30 02:00:00 2002 DAT File
 55BN5415.STA                 61 bytes Fri Aug 30 02:00:00 2002
 56BN4196.DAT                512 Kb    Fri Aug 30 03:00:00 2002 DAT File
 56BN4196.STA                 61 bytes Fri Aug 30 03:00:00 2002
 57BN0994.DAT                512 Kb    Fri Aug 30 03:00:00 2002 DAT File
 57BN0994.STA                 61 bytes Fri Aug 30 03:00:00 2002
 58BN4923.DAT                512 Kb    Fri Aug 30 03:00:00 2002 DAT File
 58BN4923.STA                 61 bytes Fri Aug 30 03:00:00 2002
 59BN0714.DAT                512 Kb    Fri Aug 30 03:00:00 2002 DAT File
 59BN0714.STA                 61 bytes Fri Aug 30 03:00:00 2002
 60BN5236.DAT                512 Kb    Fri Aug 30 03:01:00 2002 DAT File
 60BN5236.STA                 61 bytes Fri Aug 30 03:01:00 2002
 61BN4755.DAT                512 Kb    Fri Aug 30 03:01:00 2002 DAT File
 61BN4755.STA                 61 bytes Fri Aug 30 03:01:00 2002
 62BN4168.DAT                512 Kb    Fri Aug 30 04:00:00 2002 DAT File
 62BN4168.STA                 61 bytes Fri Aug 30 04:00:00 2002
```

“Custom Scans”
(Exceptions found by Computer)



DATA SCAN RESULTS TABLE

Locomotive 1067 Wheel Size 39.00 WRE DAS

Condr induced emerg Matches 0 Total Time 0:00:00:00

Emergency = CVE and Auto Brake > 10 and Speed > 0

Engr Induced Emerg Matches 1 Total Time 0:00:00:03

Ind Brake > 10 MPH Matches 26 Total Time 0:00:05:05

Speed > 10 and Ind Brake > 1

PCS Open Moving Matches 1 Total Time 0:00:00:03

Power Braking > 20 MPH Matches 4 Total Time 0:00:00:14

Speed > 60 MPH > 10 secs Matches 0 Total Time 0:00:00:00

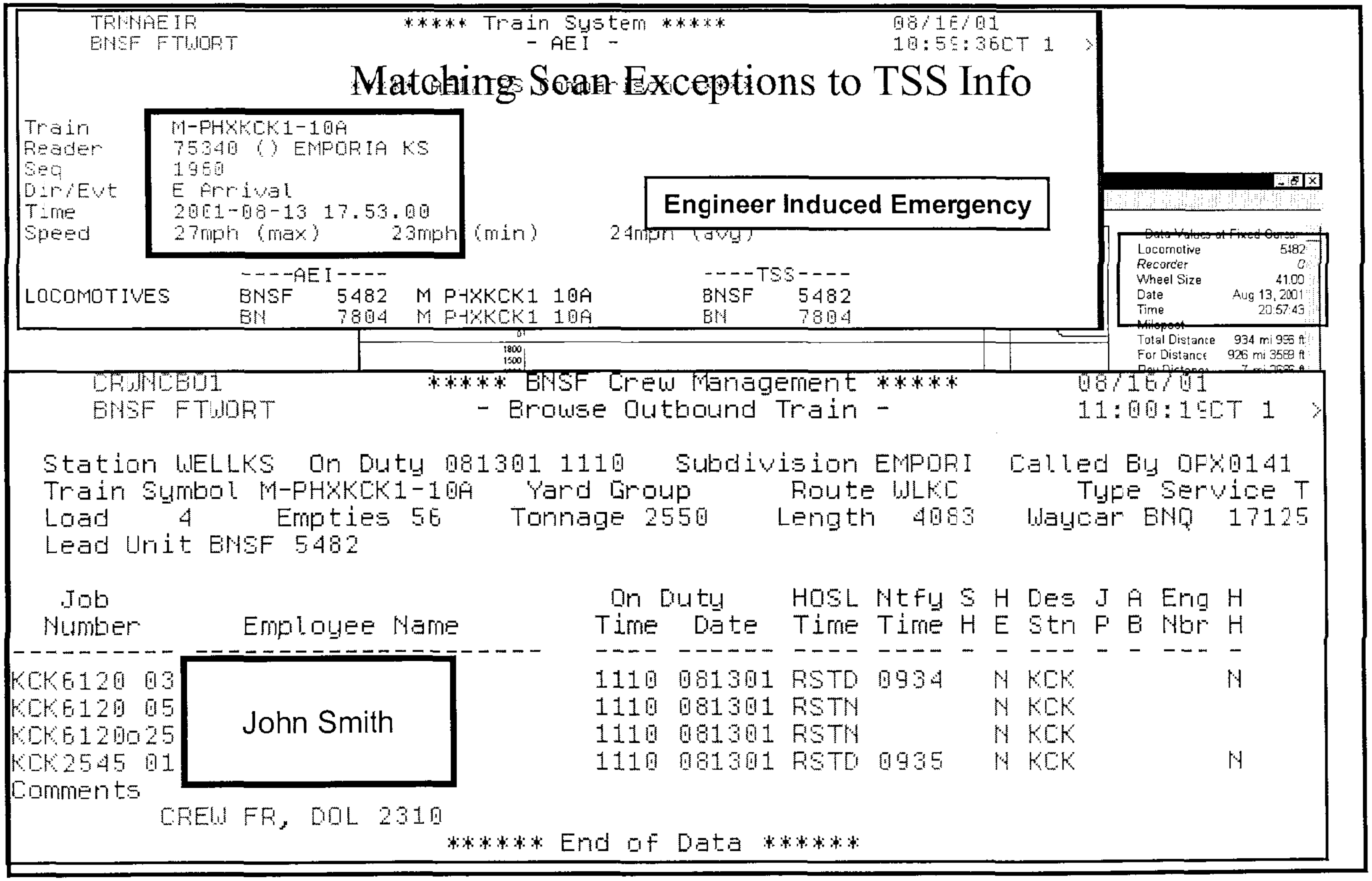
Speed > 63 MPH Matches 0 Total Time 0:00:00:00

Speed > 63

Stall > 2 mins Matches 0 Total Time 0:00:00:00

Load > 100 and Speed = 0 (Min Time = 120)

Manual Process of Matching Exceptions Found to Engineer/Train



Matching Scan Exceptions to TSS Info

Engineer Induced Emergency

```
    TRNNAEIR                  ***** Train System *****              08/16/01
    BNSF FTWORT                        - AEI -                      10:59:36CT 1  >

Train        M-PHXKCK1-10A
Reader       75340 () EMPORIA KS
Seq          1960
Dir/Evt      E Arrival
Time         2001-08-13 17.53.00
Speed        27mph (max)       23mph (min)      24mph (avg)

                    ----AEI----                         ----TSS----
LOCOMOTIVES         BNSF    5482  M PHXKCK1 10A         BNSF    5482
                    BN      7804  M PHXKCK1 10A         BN      7804
```

```
Locomotive                5482
Recorder                     0
Wheel Size               41.00
Date              Aug 13, 2001
Time                  20:57:43
Milepost
Total Distance    934 mi 956 ft
For Distance     926 mi 3589 ft
```

```
    CRWNCB01               ***** BNSF Crew Management *****         08/16/01
    BNSF FTWORT              - Browse Outbound Train -              11:00:19CT 1  >

 Station WELLKS  On Duty 081301 1110   Subdivision EMPORI   Called By OFX0141
 Train Symbol M-PHXKCK1-10A    Yard Group       Route WLKC      Type Service T
 Load      4      Empties 56     Tonnage 2550     Length   4083    Waycar BNQ  17125
 Lead Unit BNSF 5482

  Job                                    On Duty      HOSL Ntfy S H Des J A Eng H
 Number        Employee Name             Time  Date   Time Time H E Stn P B Nbr H
---------- --------------------          ---- ------ ---- ---- - - --- - - --- -
KCK6120 03                               1110 081301 RSTD 0934   N KCK          N
KCK6120 05                               1110 081301 RSTN        N KCK
KCK6120o25                               1110 081301 RSTN        N KCK
KCK2545 01                               1110 081301 RSTD 0935   N KCK          N
Comments
         CREW FR, DOL 2310
                      ****** End of Data ******
```

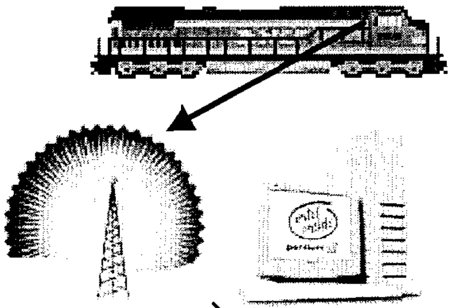
John Smith

Automating Custom Scans

AutoScan

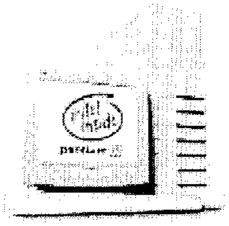
Automation - Download Exception & Matching to Train-Engineer-Location

1. Locomotive automatically downloads to base station PC when within one mile



22 Base Stations (Connected to BNSF Network)

2. Ft Worth Server receives all downloads from all base station PC's every hour.

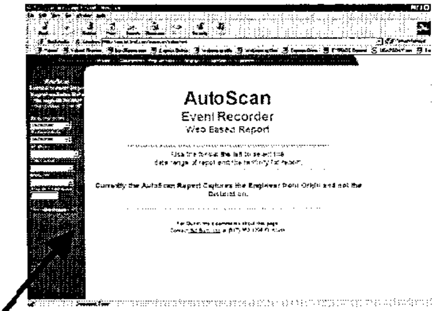


3. OP server, using AUTOSCAN, automatically scans previous day's downloads for train handling exceptions at 2:00 AM and sends to TSS database for matching train, engineer, location data

TSS database

4. Exceptions, with matching train, engineer and location data posted to Operating Practices AutoScan web page for viewing.

5. Road Foremen can access AutoScan web page for exception reports. Downloads are secured through the Operating Practices web page.



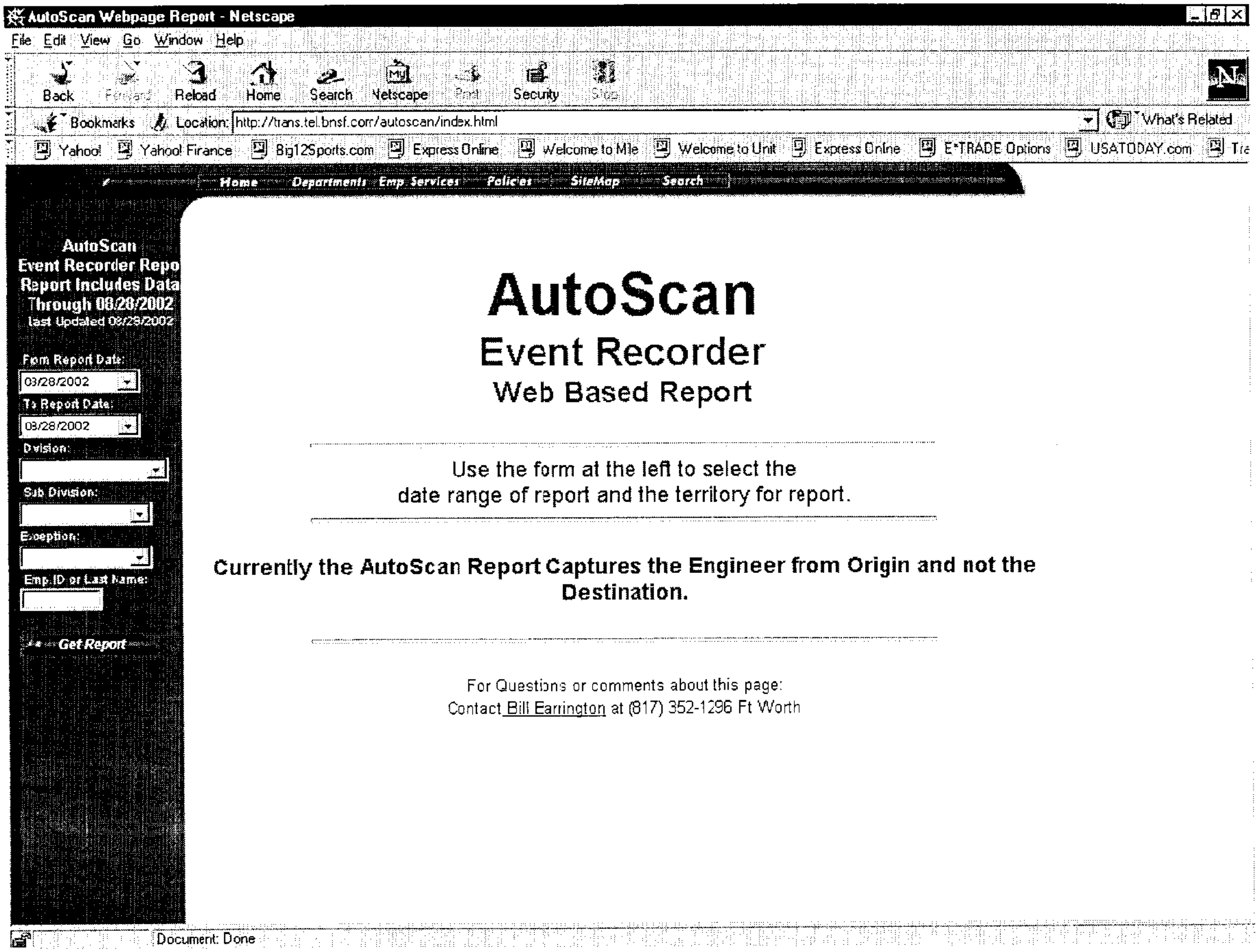
AutoScan
Event Recorder
Web Based Report

AutoScan Exceptions
and
Matching TSS Data

- AutoScan Output
    - Locomotive initial
    - Locomotive number
    - Exceptions
        - Engineer induced emergency application
        - Conductor induced emergency applications
        - Stretch braking at high throttle (Power braking)
        - Heavy reductions
        - Independent brakes use at high speed
        - Alertor penalty applications
        - Stalls (power with no movement for >2 minutes)
    - Duration of exception
    - Download data file ID

- TSS Matching Information
    - Engineer name
    - Engineer employee number
    - Train symbol
    - Engineer's departing:
        - Station
        - Time
        - Subdivision
        - Division
        - Number of cars
        - Tonnage
        - Length
        - HPT
        - Last station passed

Accessing Exceptions through AutoScan Web Page


AutoScan Webpage Report - Netscape
File Edit View Go Window Help
Back
Forward
Reload
Home
Search
Netscape
Print
Security
Stop
Bookmarks
Location: http://trans.tel.bnsf.com/autoscan/index.html
What's Related
Yahoo!
Yahoo! Finance
Big12Sports.com
Express Online
Welcome to Mile
Welcome to Unit
Express Online
E*TRADE Options
USATODAY.com
Home
Departments
Emp Services
Policies
SiteMap
Search
Get Report
Document: Done

AutoScan
Event Recorder Repo
Report Includes Data
Through 08/28/2002
last Updated 08/29/2002

From Report Date: 03/28/2002
To Report Date: 03/28/2002
Division:
Sub Division:
Exception:
Emp.ID or Last Name:

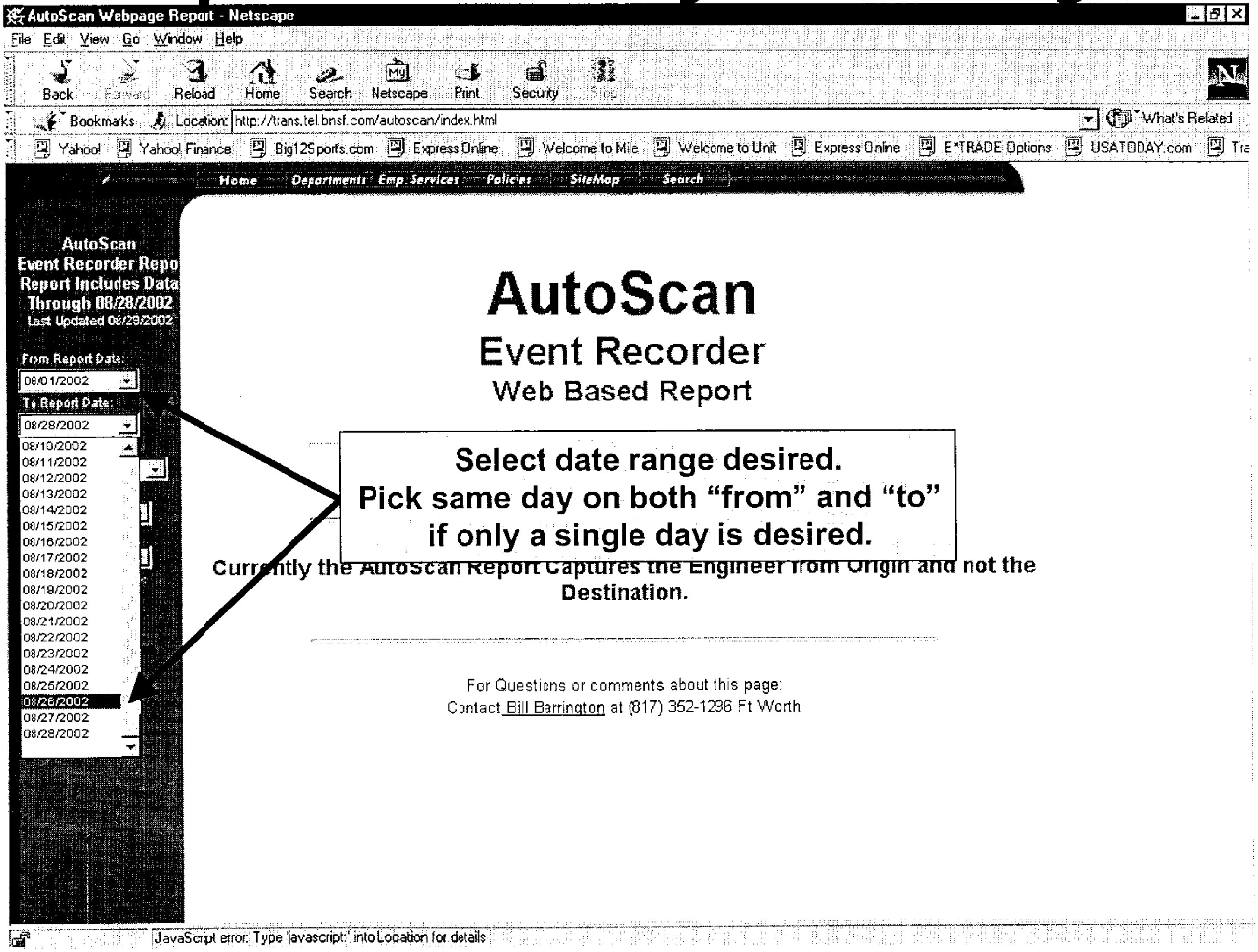
AutoScan
Event Recorder
Web Based Report

Use the form at the left to select the
date range of report and the territory for report.

Currently the AutoScan Report Captures the Engineer from Origin and not the Destination.

For Questions or comments about this page:
Contact Bill Earrington at (817) 352-1296 Ft Worth

Report Defined by Date Range


AutoScan Webpage Report - Netscape
File Edit View Go Window Help
Back Forward Reload Home Search Netscape Print Security Stop
Bookmarks
What's Related
Yahoo! Yahoo! Finance Big12Sports.com Express Online Welcome to Mie Welcome to Unit Express Online E*TRADE Options USATODAY.com Tra
Home Departments Emp. Services Policies SiteMap Search

Location: http://trans.tel.bnsf.com/autoscan/index.html

AutoScan
Event Recorder Repo
Report Includes Data
Through 08/28/2002
Last Updated 08/29/2002

From Report Date: 08/01/2002

To Report Date: 08/28/2002

08/10/2002
08/11/2002
08/12/2002
08/13/2002
08/14/2002
08/15/2002
08/16/2002
08/17/2002
08/18/2002
08/19/2002
08/20/2002
08/21/2002
08/22/2002
08/23/2002
08/24/2002
08/25/2002
08/26/2002
08/27/2002
08/28/2002

AutoScan
Event Recorder
Web Based Report

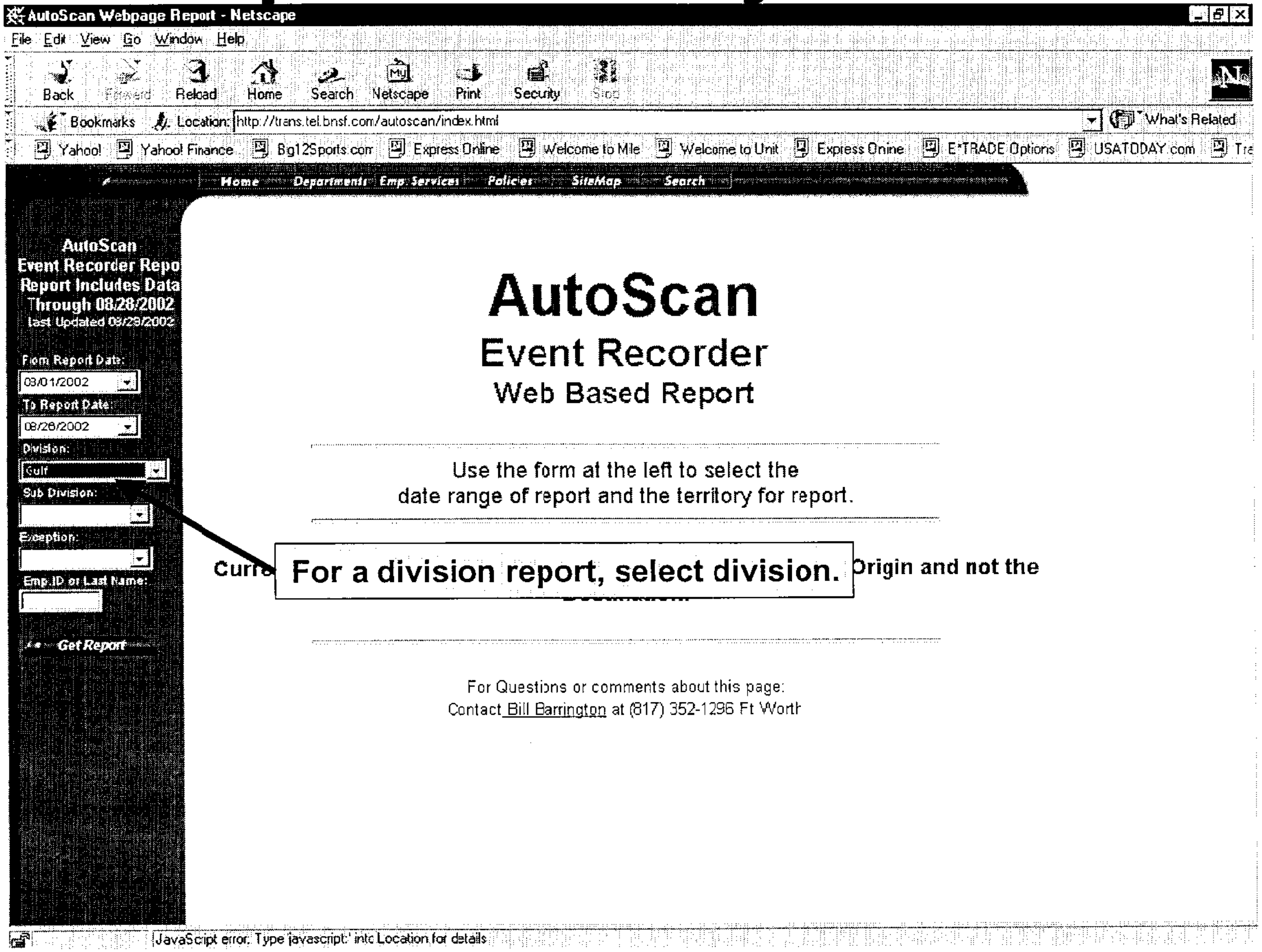
Select date range desired.
Pick same day on both "from" and "to"
if only a single day is desired.

Currently the AutoScan Report Captures the Engineer from Origin and not the Destination.

For Questions or comments about this page:
Contact Bill Barrington at (817) 352-1296 Ft Worth

JavaScript error: Type 'javascript:' into Location for details

Report Defined by Division


AutoScan Webpage Report - Netscape
File Edit View Go Window Help
Back Forward Reload Home Search Netscape Print Security Stop
Bookmarks Location:
What's Related
Yahoo! Yahoo! Finance Bg12Sports com Express Online Welcome to Mle Welcome to Unit Express Onine E*TRADE Options USATODAY com Tra
Home Departments Emp Services Policies SiteMap Search
Get Report

Location: http://trans.tel.bnsf.com/autoscan/index.html

AutoScan
Event Recorder Repo
Report Includes Data
Through 08/28/2002
last Updated 08/29/2002

From Report Date: 03/01/2002
To Report Date: 08/28/2002
Division: Gulf
Sub Division:
Exception:
Emp.ID or Last Name:

AutoScan

Event Recorder

Web Based Report

Use the form at the left to select the
date range of report and the territory for report.

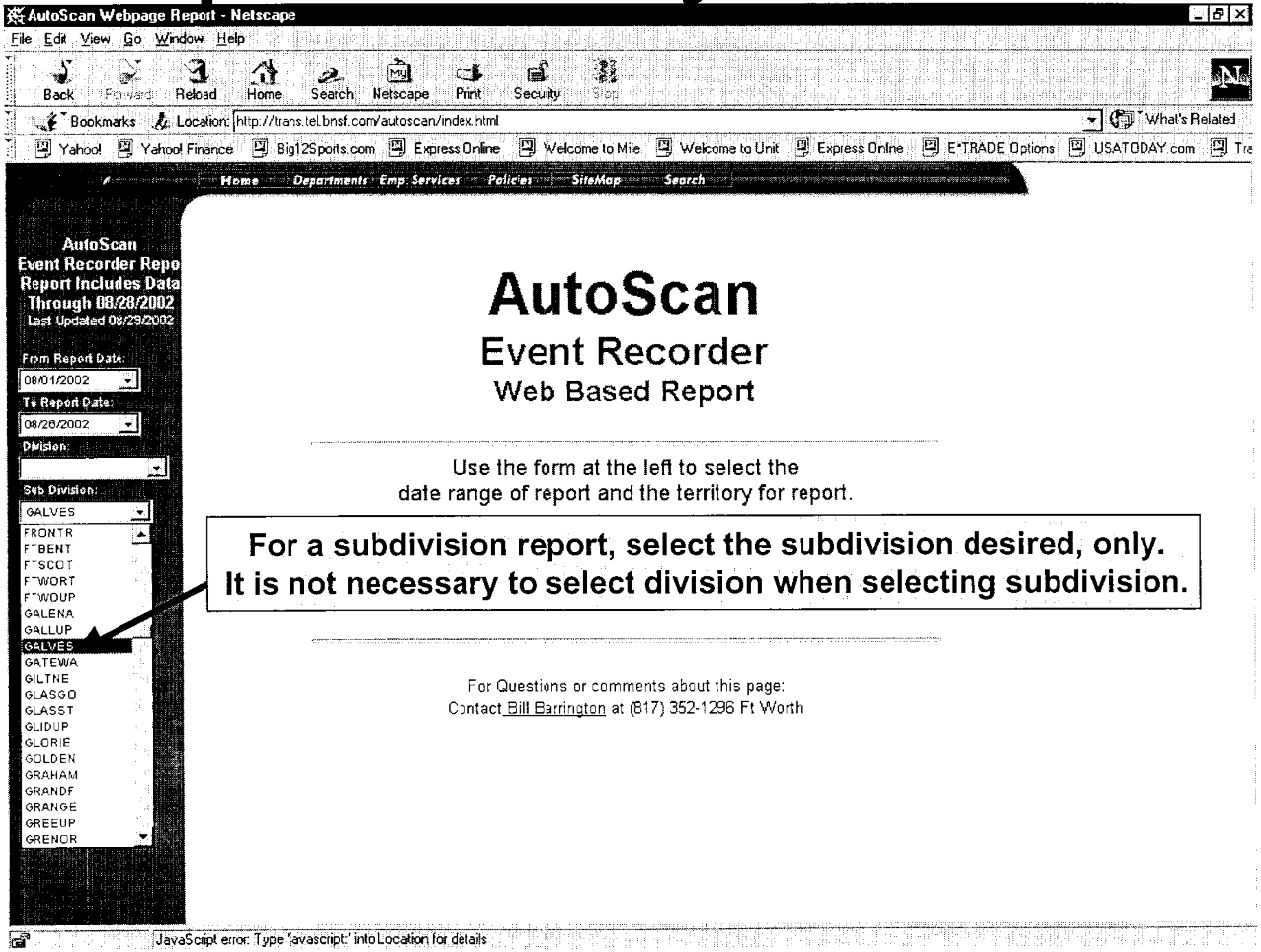
Curr Origin and not the

For Questions or comments about this page:
Contact Bill Barrington at (817) 352-1296 Ft Worth

JavaScript error: Type 'javascript:' into Location for details

For a division report, select division.

Report Defined by Subdivision


AutoScan Webpage Report - Netscape
File
Edit
View
Go
Window
Help
Back
Forward
Reload
Home
Search
Netscape
Print
Security
Stop
Bookmarks
Location: http://trans.tel.bnsf.com/autoscan/index.html
What's Related
Yahoo!
Yahoo! Finance
Big12Sports.com
Express Online
Welcome to Mie
Welcome to Unit
Express Online
E*TRADE Options
USATODAY.com
Home
Departments
Emp. Services
Policies
SiteMap
Search

AutoScan
Event Recorder Repo
Report Includes Data
Through 08/28/2002
Last Updated 08/29/2002

From Report Date: 08/01/2002
To Report Date: 08/26/2002
Division:
Sub Division: GALVES

FRONTR
FTBENT
FTSCOT
FTWORT
FTWOUP
GALENA
GALLUP
GALVES
GATEWA
GILTNE
GLASGO
GLASST
GLIDUP
GLORIE
GOLDEN
GRAHAM
GRANDF
GRANGE
GREEUP
GRENOR

AutoScan
Event Recorder
Web Based Report

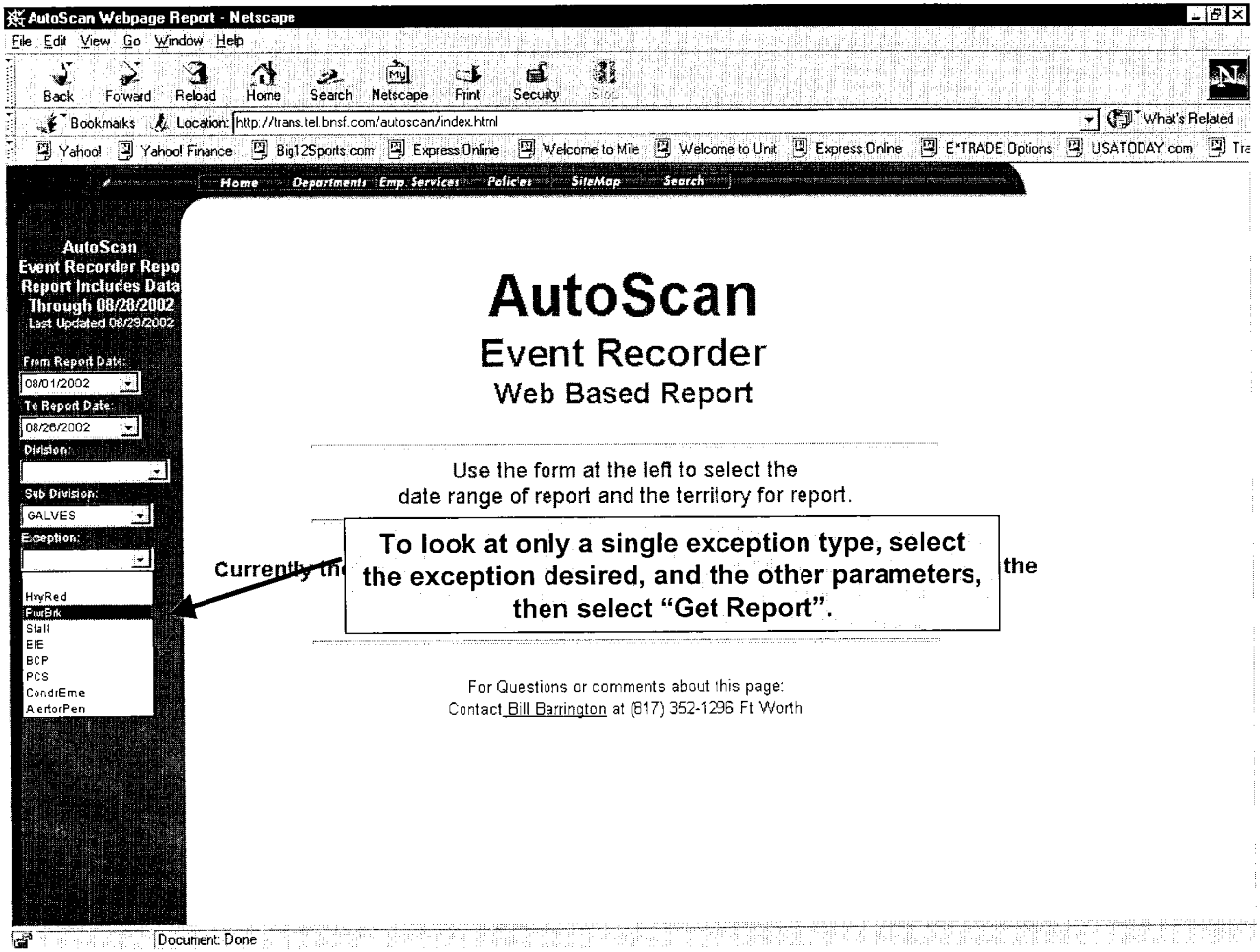
Use the form at the left to select the
date range of report and the territory for report.

For a subdivision report, select the subdivision desired, only.
It is not necessary to select division when selecting subdivision.

For Questions or comments about this page:
Contact Bill Barrington at (817) 352-1296 Ft Worth

JavaScript error: Type 'javascript:' into Location for details

Report May be Defined by Individual Exceptions


AutoScan Webpage Report - Netscape
File Edit View Go Window Help
Back Forward Reload Home Search Netscape Print Security Stop
Bookmarks Location: http://trans.tel.bnsf.com/autoscan/index.html
What's Related
Yahoo! Yahoo! Finance Big12Sports.com ExpressOnline Welcome to Mile Welcome to Unit Express Online E*TRADE Options USATODAY.com Tra
Home Departments Emp. Services Policies SiteMap Search
Document: Done

AutoScan
Event Recorder Repo
Report Includes Data
Through 08/28/2002
Last Updated 08/29/2002

From Report Date: 08/01/2002
To Report Date: 08/26/2002
Division:
Sub Division: GALVES
Exception:

- HvyRed
- PwrBrk
- Stall
- EIE
- BCP
- PCS
- CondrEme
- AertorPen

AutoScan
Event Recorder
Web Based Report

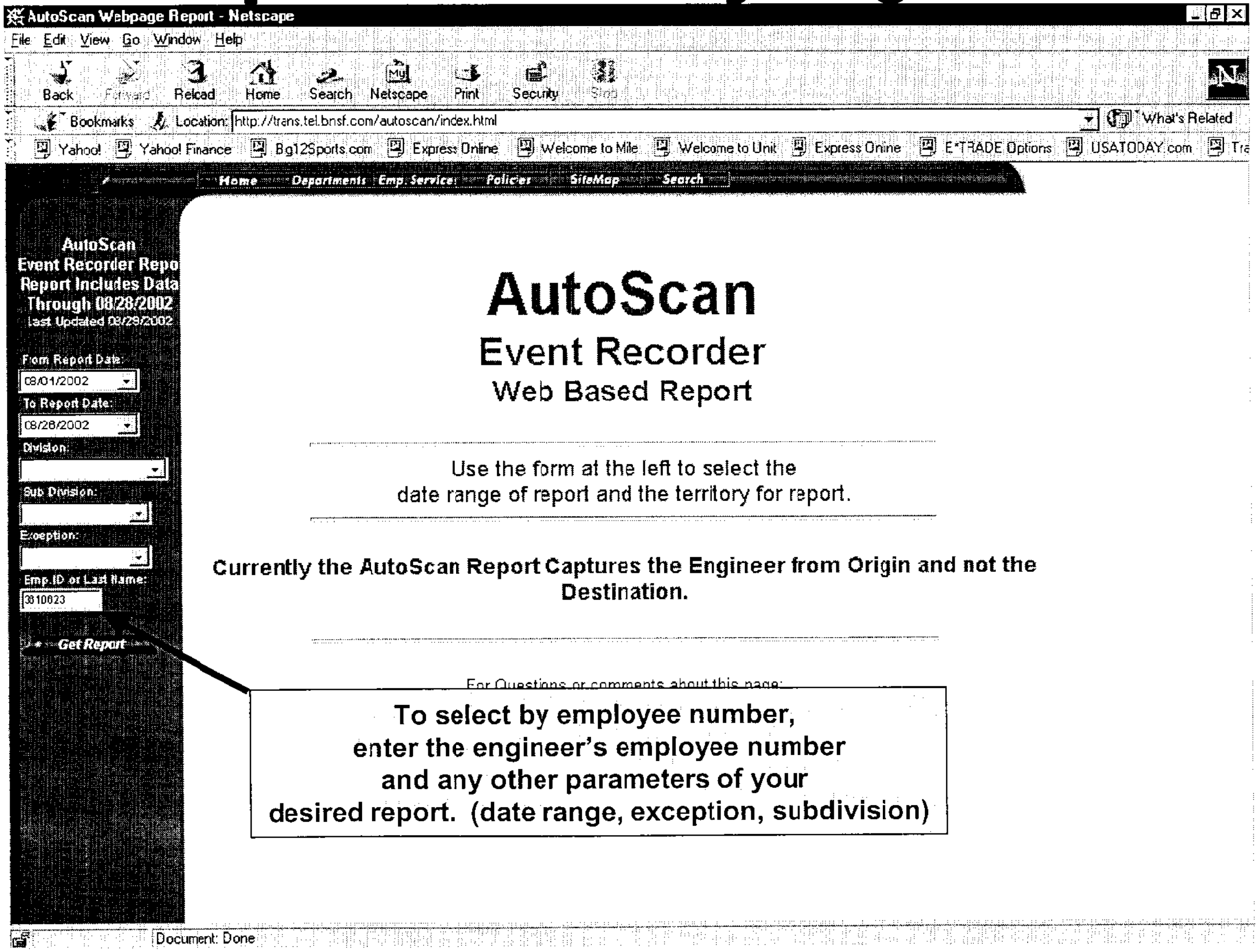
Use the form at the left to select the
date range of report and the territory for report.

Currently the … the

To look at only a single exception type, select the exception desired, and the other parameters, then select "Get Report".

For Questions or comments about this page:
Contact Bill Barrington at (817) 352-1296 Ft Worth

Report Defined by Engineer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Document: Done

AutoScan
Event Recorder Repo
Report Includes Data
Through 08/28/2002
Last Updated 08/29/2002

From Report Date: 08/01/2002
To Report Date: 08/28/2002
Division:
Sub Division:
Exception:
Emp.ID or Last Name: 3810623

AutoScan
Event Recorder
Web Based Report

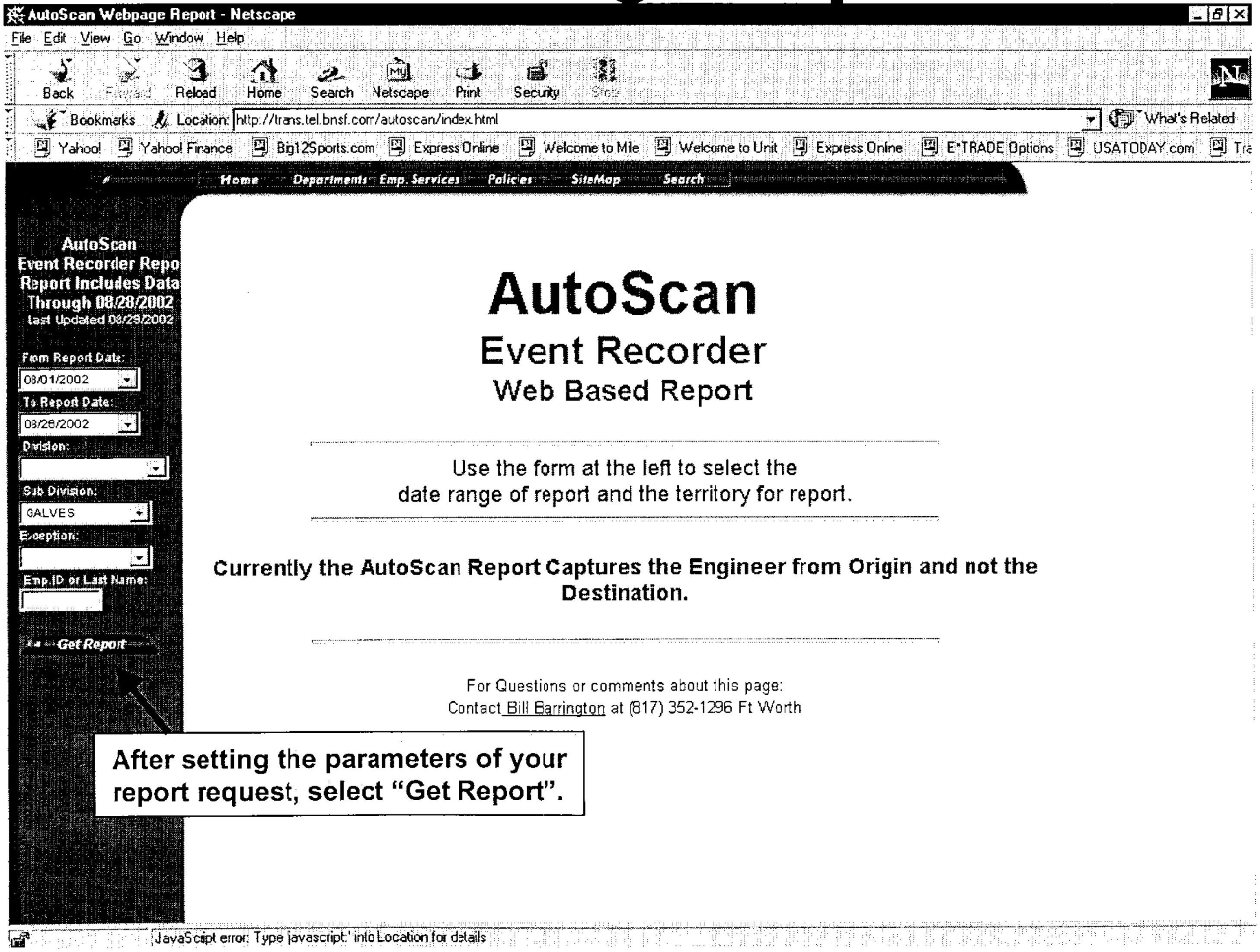
Use the form at the left to select the
date range of report and the territory for report.

Currently the AutoScan Report Captures the Engineer from Origin and not the Destination.

For Questions or comments about this page:

To select by employee number,
enter the engineer's employee number
and any other parameters of your
desired report. (date range, exception, subdivision)

Generating a Report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AutoScan
Event Recorder Repo
Report Includes Data
Through 08/28/2002
last Updated 08/29/2002

From Report Date: 08/01/2002
To Report Date: 08/28/2002
Division:
Sub Division: GALVES
Exception:
Emp.ID or Last Name:

Get Report

AutoScan
Event Recorder
Web Based Report

Use the form at the left to select the
date range of report and the territory for report.

Currently the AutoScan Report Captures the Engineer from Origin and not the Destination.

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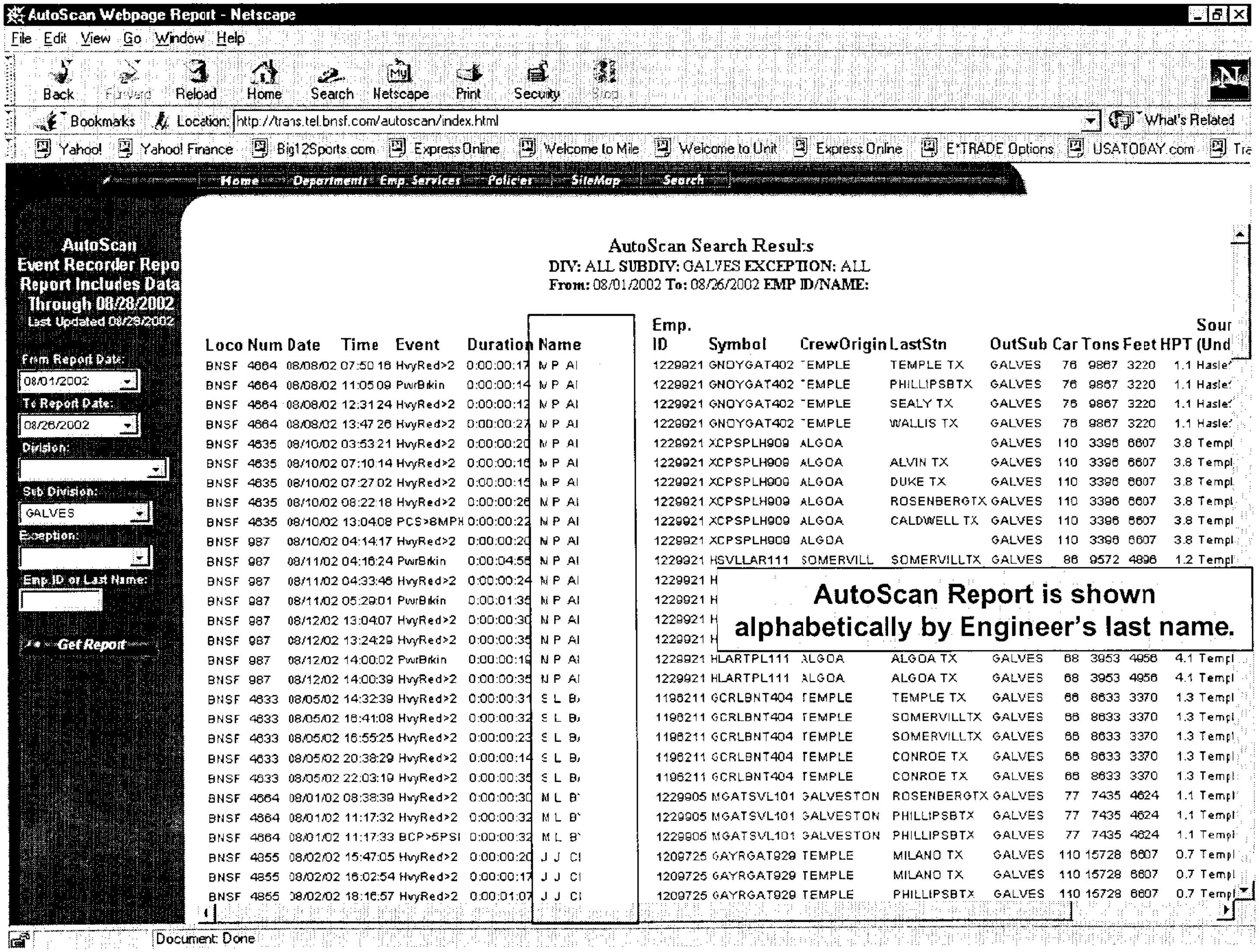
JavaScript error: Type 'javascript:' into Location for details

After setting the parameters of your report request, select "Get Report".

AutoScan Report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Home Departments Emp Services Policies SiteMap Search
Get Report
Document: Done

AutoScan
Event Recorder Repo
Report Includes Data
Through 08/28/2002
Last Updated 08/28/2002

From Report Date: 08/01/2002
To Report Date: 08/26/2002
Division:
Sub Division: GALVES
Exception:
Emp.ID or Last Name:

AutoScan Search Results
DIV: ALL **SUBDIV:** GALVES **EXCEPTION:** ALL
From: 08/01/2002 **To:** 08/26/2002 **EMP ID/NAME:**

Loco	Num	Date	Time	Event	Duration	Name	Emp. ID	Symbol	CrewOrigin	LastStn	OutSub	Car	Tons	Feet	HPT	Sour (Und
BNSF	4664	08/08/02	07:50:16	HvyRed>2	0:00:00:17	M P Al	1229921	GNOYGAT402	TEMPLE	TEMPLE TX	GALVES	76	9867	3220	1.1	Hasle
BNSF	4664	08/08/02	11:05:09	PwrBrkin	0:00:00:14	M P Al	1229921	GNOYGAT402	TEMPLE	PHILLIPSBTX	GALVES	76	9867	3220	1.1	Hasle
BNSF	4664	08/08/02	12:31:24	HvyRed>2	0:00:00:12	M P Al	1229921	GNOYGAT402	TEMPLE	SEALY TX	GALVES	76	9867	3220	1.1	Hasle
BNSF	4664	08/08/02	13:47:26	HvyRed>2	0:00:00:27	M P Al	1229921	GNOYGAT402	TEMPLE	WALLIS TX	GALVES	76	9867	3220	1.1	Hasle
BNSF	4635	08/10/02	03:53:21	HvyRed>2	0:00:00:20	M P Al	1229921	XCPSPLH909	ALGOA		GALVES	110	3396	6607	3.8	Templ
BNSF	4635	08/10/02	07:10:14	HvyRed>2	0:00:00:16	M P Al	1229921	XCPSPLH909	ALGOA	ALVIN TX	GALVES	110	3396	6607	3.8	Templ
BNSF	4635	08/10/02	07:27:02	HvyRed>2	0:00:00:15	M P Al	1229921	XCPSPLH909	ALGOA	DUKE TX	GALVES	110	3396	6607	3.8	Templ
BNSF	4635	08/10/02	08:22:18	HvyRed>2	0:00:00:26	M P Al	1229921	XCPSPLH909	ALGOA	ROSENBERGTX	GALVES	110	3396	6607	3.8	Templ
BNSF	4635	08/10/02	13:04:08	PCS>8MPH	0:00:00:22	M P Al	1229921	XCPSPLH909	ALGOA	CALDWELL TX	GALVES	110	3396	6607	3.8	Templ
BNSF	987	08/10/02	04:14:17	HvyRed>2	0:00:00:20	N P Al	1229921	XCPSPLH909	ALGOA		GALVES	110	3396	6607	3.8	Templ
BNSF	987	08/11/02	04:16:24	PwrBrkin	0:00:04:55	N P Al	1229921	HSVLLAR111	SOMERVILL	SOMERVILLTX	GALVES	86	9572	4896	1.2	Templ
BNSF	987	08/11/02	04:33:46	HvyRed>2	0:00:00:24	N P Al	1229921	H								
BNSF	987	08/11/02	05:29:01	PwrBrkin	0:00:01:35	N P Al	1229921	H								
BNSF	987	08/12/02	13:04:07	HvyRed>2	0:00:00:30	N P Al	1229921	H								
BNSF	987	08/12/02	13:24:29	HvyRed>2	0:00:00:35	N P Al	1229921	H								
BNSF	987	08/12/02	14:00:02	PwrBrkin	0:00:00:19	N P Al	1229921	HLARTPL111	ALGOA	ALGOA TX	GALVES	68	3953	4956	4.1	Templ
BNSF	987	08/12/02	14:00:39	HvyRed>2	0:00:00:35	N P Al	1229921	HLARTPL111	ALGOA	ALGOA TX	GALVES	68	3953	4956	4.1	Templ
BNSF	4633	08/05/02	14:32:39	HvyRed>2	0:00:00:31	S L B	1196211	GCRLBNT404	TEMPLE	TEMPLE TX	GALVES	66	8633	3370	1.3	Templ
BNSF	4633	08/05/02	16:41:08	HvyRed>2	0:00:00:32	S L B	1196211	GCRLBNT404	TEMPLE	SOMERVILLTX	GALVES	66	8633	3370	1.3	Templ
BNSF	4633	08/05/02	16:55:25	HvyRed>2	0:00:00:23	S L B	1196211	GCRLBNT404	TEMPLE	SOMERVILLTX	GALVES	66	8633	3370	1.3	Templ
BNSF	4633	08/05/02	20:38:29	HvyRed>2	0:00:00:14	S L B	1196211	GCRLBNT404	TEMPLE	CONROE TX	GALVES	66	8633	3370	1.3	Templ
BNSF	4633	08/05/02	22:03:19	HvyRed>2	0:00:00:35	S L B	1196211	GCRLBNT404	TEMPLE	CONROE TX	GALVES	66	8633	3370	1.3	Templ
BNSF	4664	08/01/02	08:38:39	HvyRed>2	0:00:00:30	M L B	1229905	MGATSVL101	GALVESTON	ROSENBERGTX	GALVES	77	7435	4624	1.1	Templ
BNSF	4664	08/01/02	11:17:32	HvyRed>2	0:00:00:32	M L B	1229905	MGATSVL101	GALVESTON	PHILLIPSBTX	GALVES	77	7435	4624	1.1	Templ
BNSF	4664	08/01/02	11:17:33	BCP>5PSI	0:00:00:32	M L B	1229905	MGATSVL101	GALVESTON	PHILLIPSBTX	GALVES	77	7435	4624	1.1	Templ
BNSF	4855	08/02/02	15:47:05	HvyRed>2	0:00:00:20	J J Cl	1209725	GAYRGAT929	TEMPLE	MILANO TX	GALVES	110	15728	6607	0.7	Templ
BNSF	4855	08/02/02	16:02:54	HvyRed>2	0:00:00:17	J J Cl	1209725	GAYRGAT929	TEMPLE	MILANO TX	GALVES	110	15728	6607	0.7	Templ
BNSF	4855	08/02/02	18:16:57	HvyRed>2	0:00:01:07	J J Cl	1209725	GAYRGAT929	TEMPLE	PHILLIPSBTX	GALVES	110	15728	6607	0.7	Templ

AutoScan Report is shown alphabetically by Engineer's last name.

Other Uses of AutoScan in Development

- Develop additional exceptions
- Fuel monitoring
- Identifying End of Train Failure Locations
- Automated Operations Testing
  - Record compliance for stops made at the end of authority (red signals, track warrant limits, etc.)
  - Compliance with speed restrictions