Title: Use of FroTools Program for Accessing NCSX Pro/E Drawings	**Initiated by:** NCSX Systems Engineering Support Manager	**Effective Date:** **November 2, 2006**
Concurrence by: NCSX Quality Assurance Manager	**Concurrence by:** NCSX Design Integration Manager	**Concurrence by:** PPPL Mechanical Design Supervisor
	Approved by: NCSX Engineering Manager	**Supersedes:** **New**

Record of Revisions

Revision	Date	Description of Changes
0	**11/2/2006**	**Initial Issue**

Applicability

This procedure is applicable to the entire NCSX Project.

Introduction

The NCSX ProE/INTRALINK Users Guide (NCSX-GUID-PRO/INTR) and the NCSX Procedure NCSX-PROC-007 (NCSX Electronic Model and Drawing/INTRALINK Processes) describe the operation of the Pro/INTRALINK database. *FroTools* is a browser based program that enables personnel not having direct access to Pro/Engineer (Pro/E) or do not have in-depth familiarity with how to navigate the Pro/INTRALINK database to relatively easily access and copy CAD files to their desktop. If used correctly, *FroTools* will provide easy web access to the Pro/INTRALINK database. While *FroTools* has the capability to access other formats such as native ProE, DXF, IGES, etc. files, the NCSX Project's use of *FroTools* is limited to accessing electronically signed pdf drawings.

In order to utilize *FroTools*, three prerequisites must be met:
- A potential user must connect to *FroTools* via the **P**rinceton **I**ntralink **D**ata **A**ccess (PIDA) web at: http://www/pida.pppl.gov;
- A potential user must have an INTRALINK Account – the CADD Administrator in the Computer Division is the contact person to obtain this account; and
- A potential user must be trained in the use of *FroTools* – the Design Integration Manager or his designee will provide this training (either one-on-one or in group session).

This procedure will cover the basics of using *FroTools*.

Referenced Documents

Document Number	Document Title
NCSX-GUID-PRO/INTR	Pro/INTRALINK Users Guide
NCSX-PROC-007	NCSX Electronic Model and Drawing/INTRALINK Processes

Procedure

A.   **Use of FroTools**

User of FroTools opens a convenient web browser and types in the following URL: http://www/pida.pppl.gov

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User logs into FroTools using their individual Pro/INTRALINK Username and Password.
Note: User obtains this from the PPPL CADD Administrator.

↓

When FroTools page opens, the **User** selects the in the NCSX Folder under the sub directory: **001_Released Dwgs_PDF_Format**

↓

User edits/customizes the level of detail to be displayed by using teh Edit Menu. *FroTools* offers a wide range of options. After selecting the options desired, **User** selects *Customize* to save the options. See Attachment 1 to this procedure for illustrations.

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For Stellartor Core drawings, (WBS 100 Level), the **User** selects *100_Stellarator_Core*. A *FroTools* menu provides the option to select a limited number or all (e.g., 20, 50, 100, or 200) of objects (drawings) to be listed. User can also use the Web Browser to do a specific word or number search.

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User selects the file desired and, under the Application Menu, selects "Add to Export List."
A *FroTools* Export Center Dialogue box appears and selects "Export Now."
Note: If an error message appears (CADD Administrator working to solve this issue,
merely right click and select "refresh" and then "retry" -- this should solve the problem.

Once the transfer/export is completed, **User** double clicks on the filename icon to
display the selected pdf drawing. Drawing may be resized and printed on any printer
selected or can be plotted.

END
When finished, User select File Menu, selects
EXIT, and then OK when the pop up dialogue box
appears

Attachment

1- FroTools Illustration

The following screen shots are intended to provide the User of *FroTools* an illustrative example on how the *FroTools* program will work.

Open a Web Browser and Type in this address
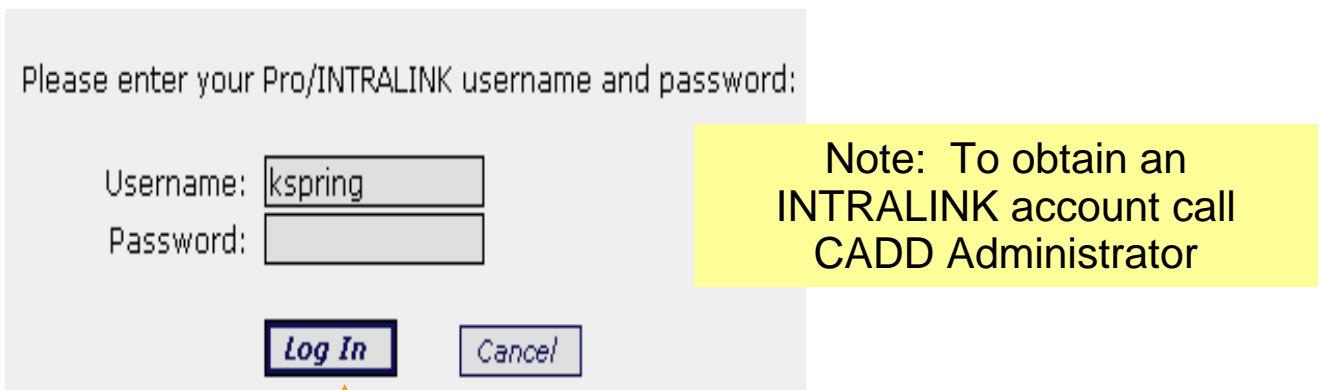
Type the Internet address of a document or folder, and Internet Explorer will open it for you.

For future use bookmark this address.

Open: pida.pppl.gov

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Enter INTRALINK Username and Password

Please enter your Pro/INTRALINK username and password:

Username: kspring
Password:

Note: To obtain an INTRALINK account call CADD Administrator

Log In   Cancel

Click on Log In
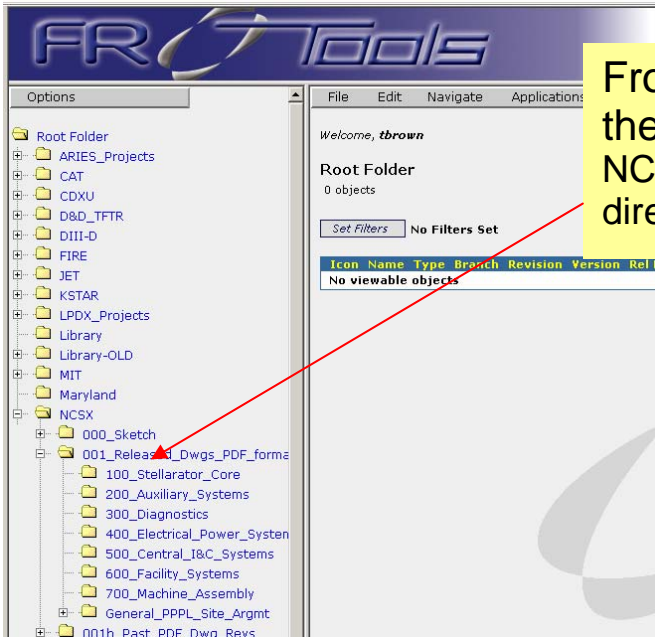
FroTools opens with a page showing the INTRALINK folders.
NCSX pdf files are located in the sub directory: **001_Released Dwgs_PDF_format**
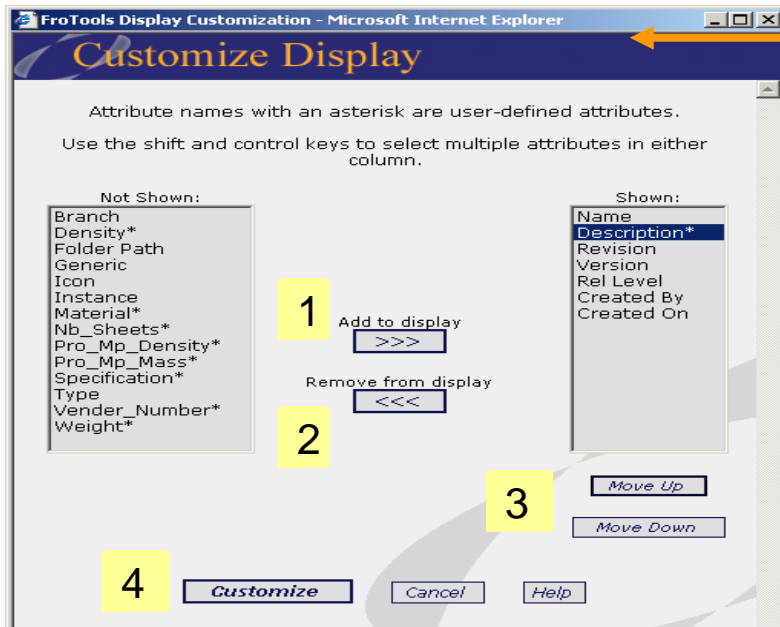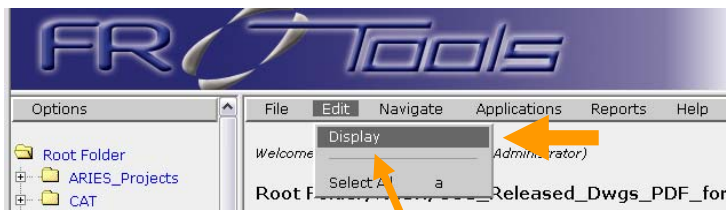
Select Edit / Display

To format the Listing

1 **Add to Display**

2 **Remove from Display**

3 **Move Up/Move Down**

4 **Customize**

All NCSX Core drawings (WBS 100 level) can be found under 100_Stellarator_Core. A Left click of the mouse button will list the drawings as shown above.
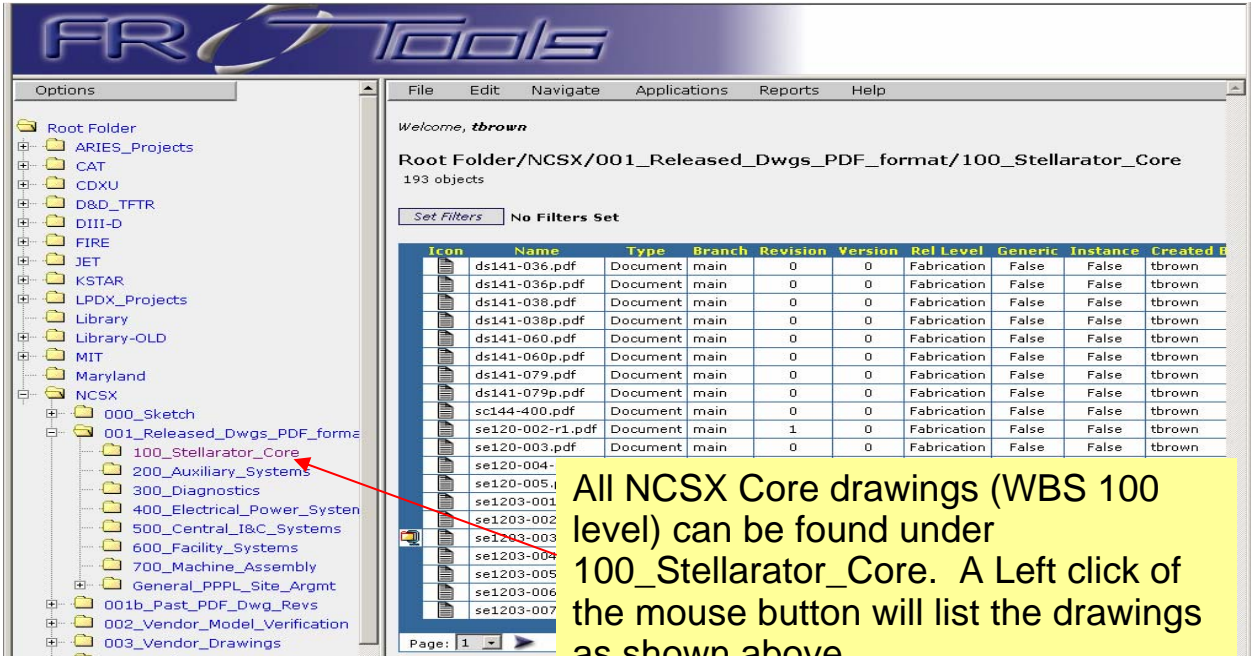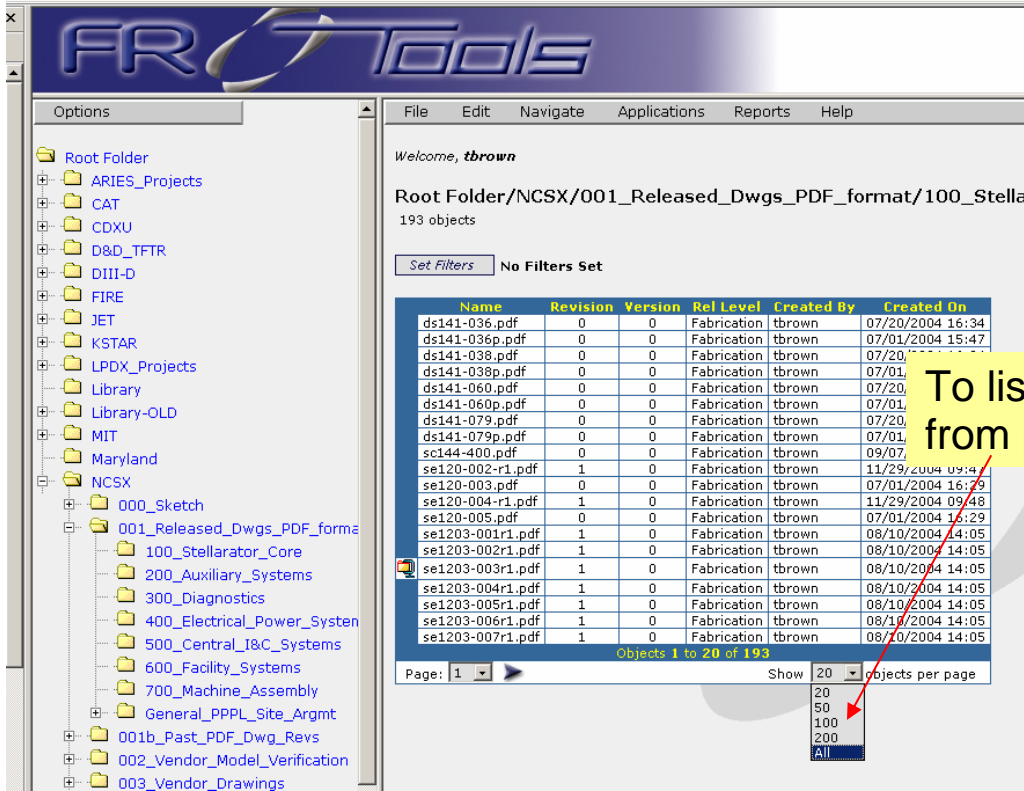
To list all files select All from pull down window
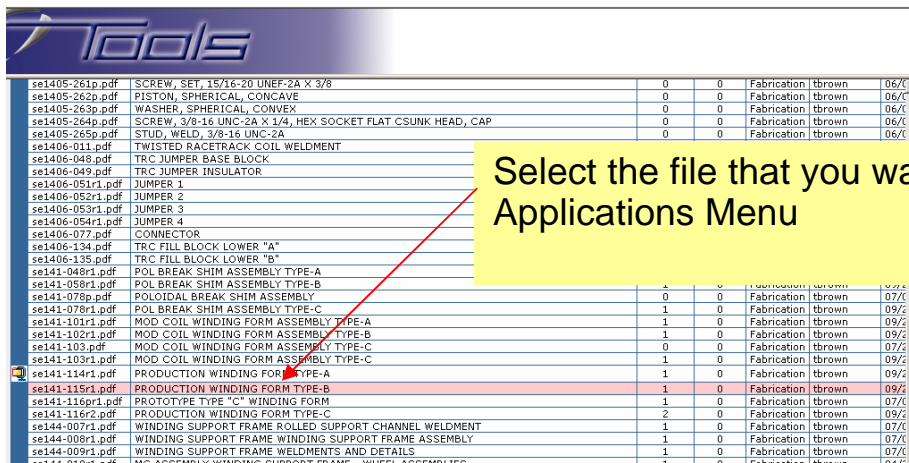
Select the file that you want, and under the Applications Menu
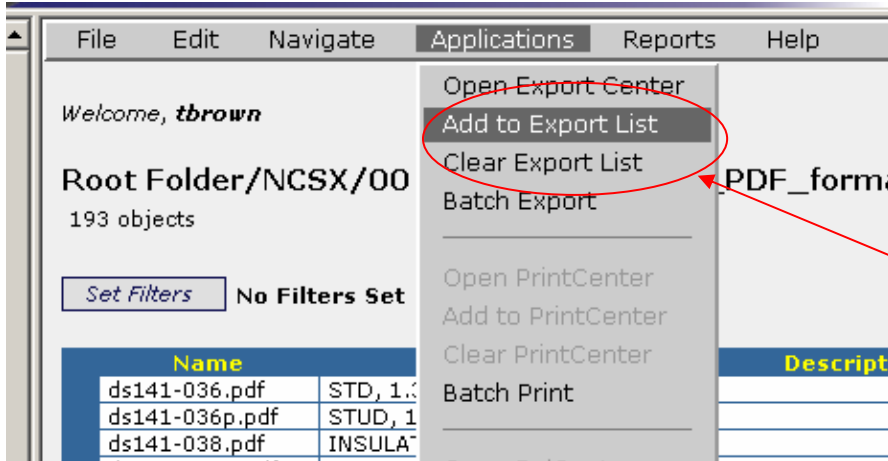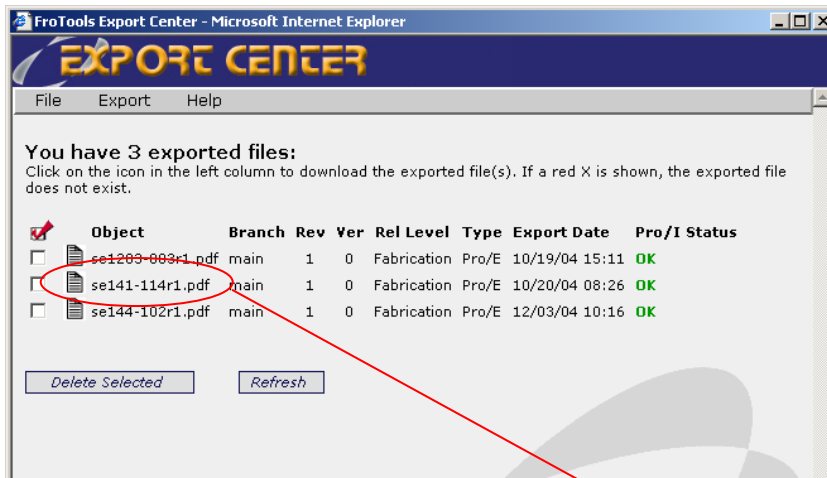
Select "Add to Export List"

Select "Export Now"

NCSX
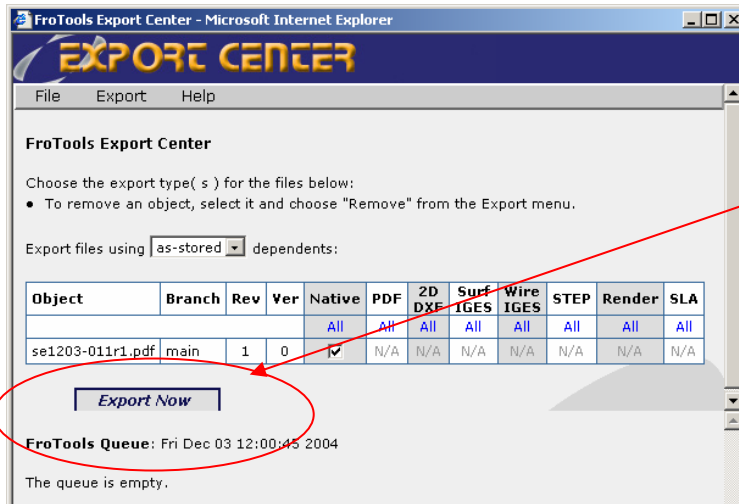
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Attachment 1	
FroTools Illustration	
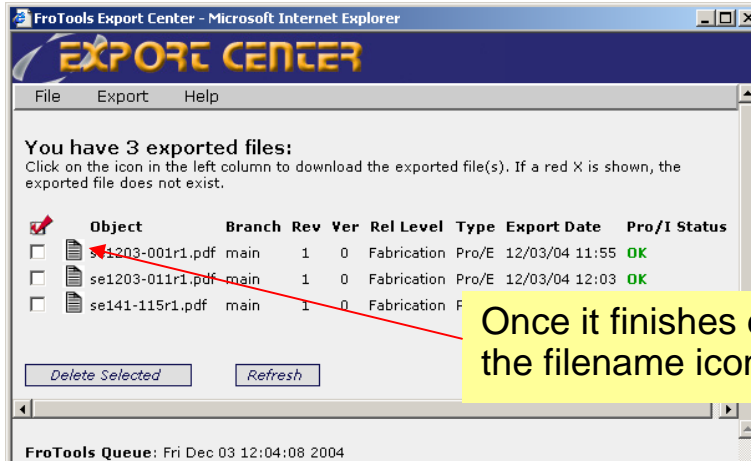
If error message appears:
- Right click and select "refresh"
- When second dialogue box appears, select "retry"

Once it finishes double click on the filename icon

After clicking the filename icon the Acrobat drawing file will appear.   The drawing can be re-sized and printed to any installed printer or it can be sent to plotters.
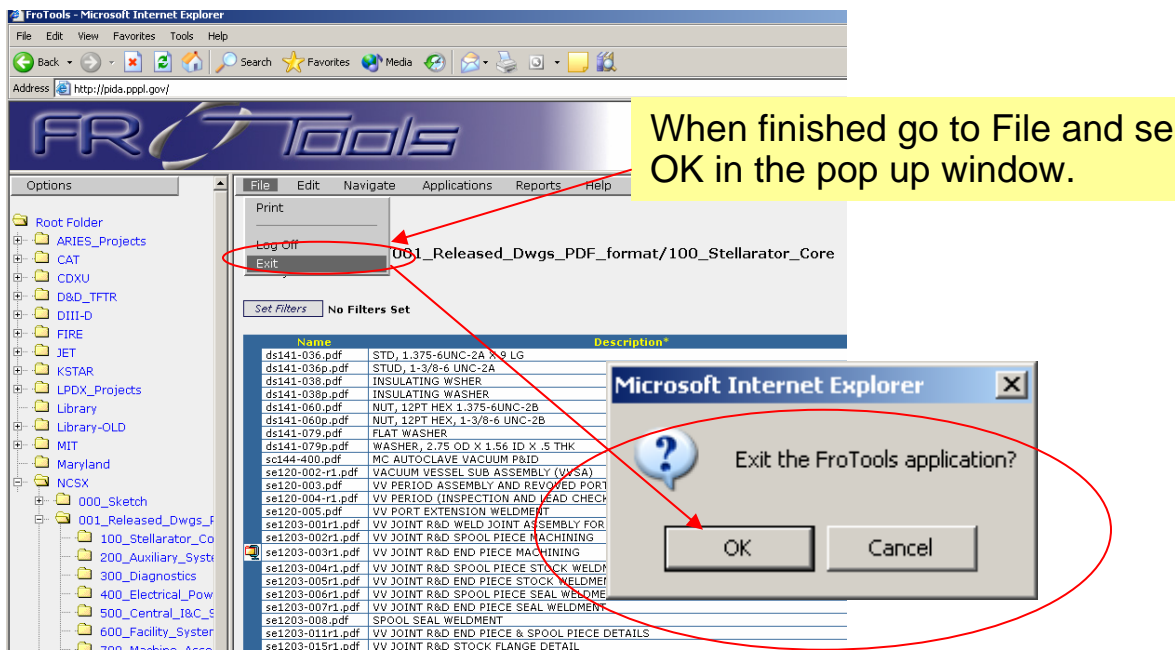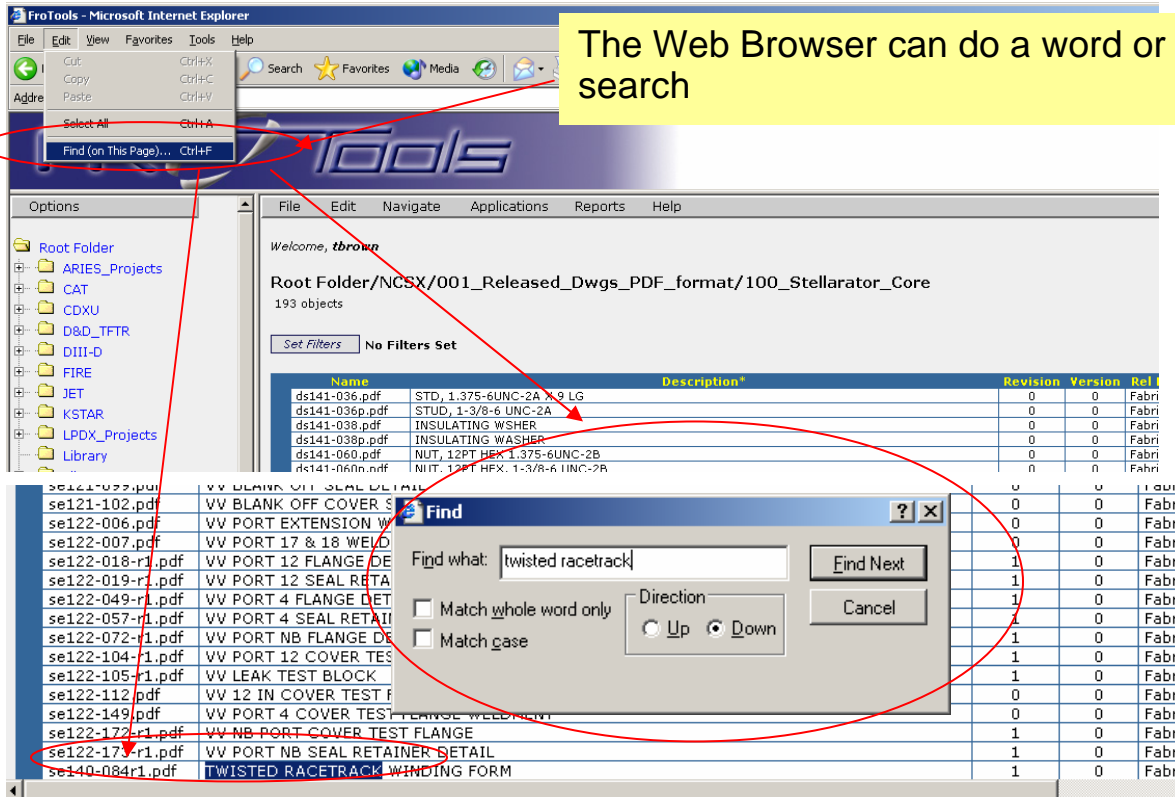
The Web Browser can do a word or number search

When finished go to File and select Exit then OK in the pop up window.