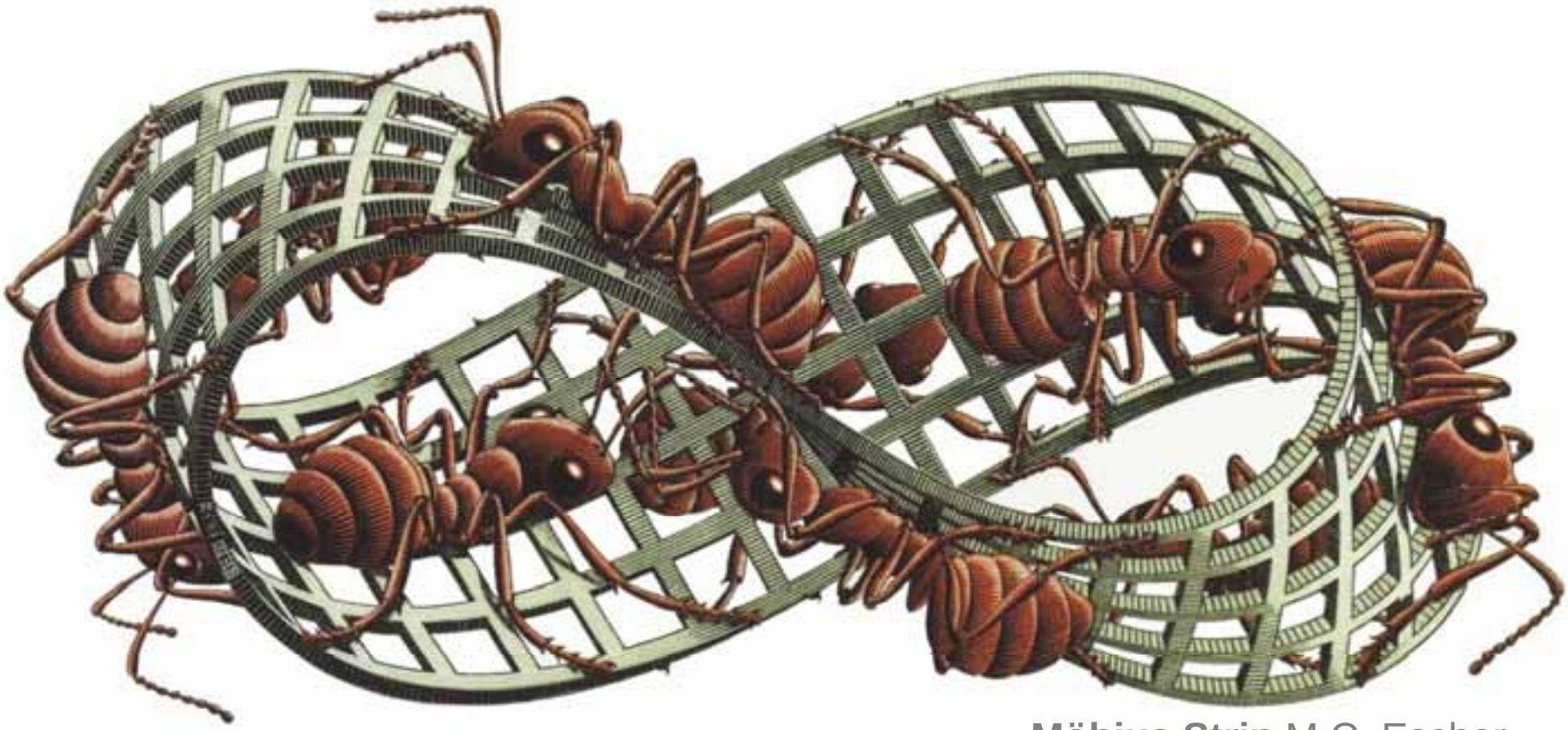
topology



Möbius Strip M.C. Escher

Frederic Max Squires - CTR

United States Coast Guard

Topics

- Explain topology and its related components
- Show how to build a topological relationship in ArcGIS
- Discuss the benefits and drawbacks of topological relationships


Shady Grove
MARC Rockville
Twinbrook
White Flint
Grosvenor
Medical Center
Bethesda
Friendship Heights
Cleveland Park
Woodley Park-Zoo
Dupont Circle
Farragut North
RED LINE
Tenleytown-AU
Van Ness-UDC
McPherson Sq
Capital Beltway
Glenmont
Opens mid-1998
Wheaton
Forest Glen
Silver Spring MARC
Takoma
Georgia Ave-Petworth
Columbia Heights
U Street-Cardozo
Shaw-Howard Univ
Mt Vernon Sq-UDC
Fort Totten
GREEN LINE
Greenbelt MARC
College Park-U of Md MARC
Prince George's Plaza
West Hyattsville
Brookland-CUA
Rhode Island Ave
MARC
New Carrollton
Landover
Cheverly
Deanwood
Minnesota Ave
Union Station
MARC
Judiciary Sq
Gallery Pl-Chinatown
Rosslyn
ORANGE LINE
Vienna
Dunn Loring
West Falls Church
East Falls Church
Ballston-MU
Virginia Sq-GMU
Clarendon
Court House
Foggy Bottom-GWU
Farragut West
Metro Center
Federal Triangle
Smithsonian
Archives-Navy Meml
L'Enfant Plaza
SW Federal Center
Capitol South
Eastern Market
Potomac Ave
Stadium-Armory
Benning Road
Capitol Heights
Addison Road
Arlington Cemetery
Pentagon
Pentagon City
YELLOW LINE
Waterfront
Navy Yard
Anacostia
Congress Heights
Southern Ave
Naylor Road
Suitland
Branch Ave
Crystal City
National Airport
Van Dorn Street
Braddock Road
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King Street
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Franconia-Springfield
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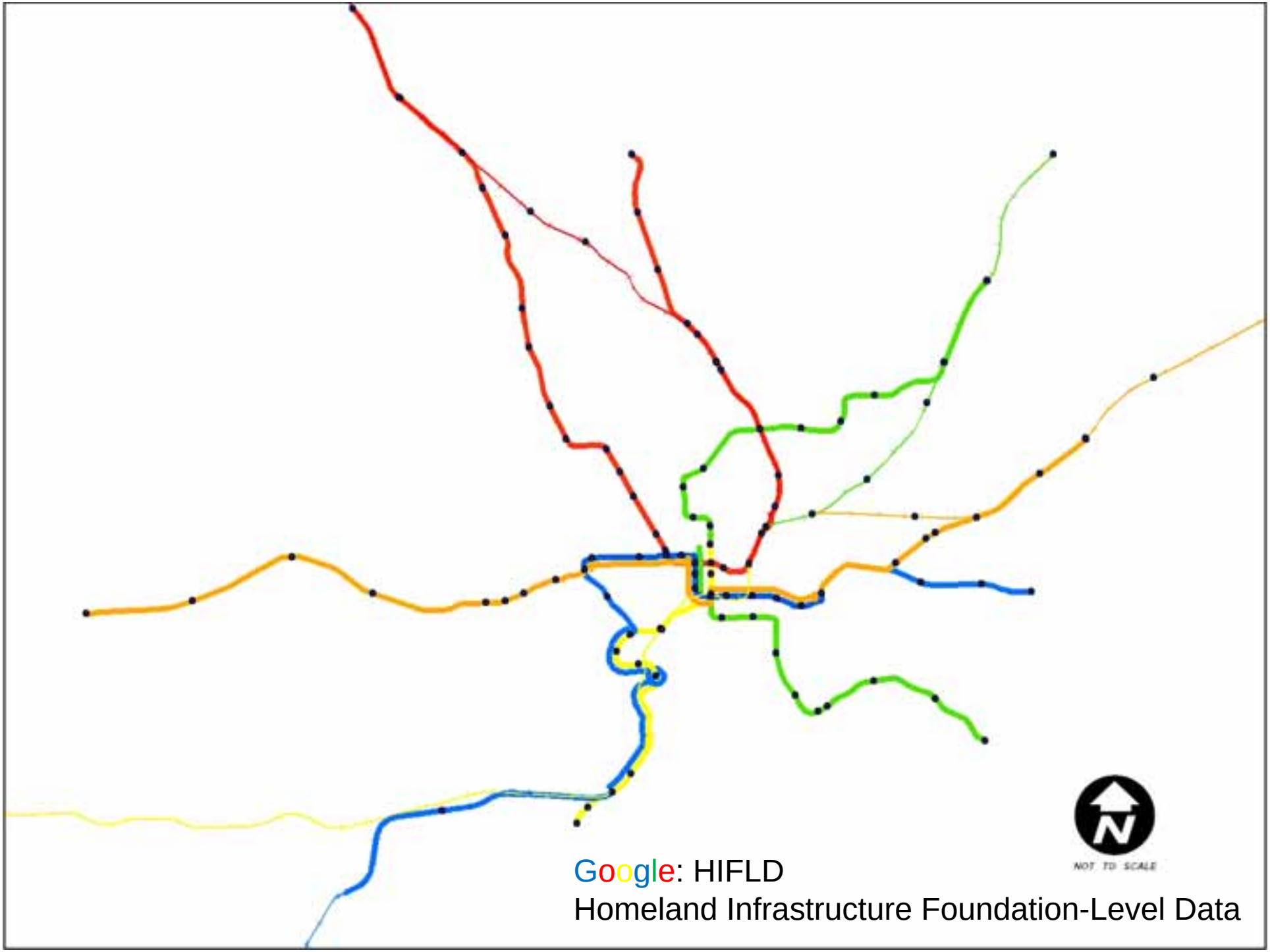
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Homeland Infrastructure Foundation-Level Data

What is the Goal of Topology in Geographic Information Systems?

- Connectedness

  – Spatial Analysis

  &

  – Database Management

What is the Goal of Topology in MY Geographic Information System?

- Do I want to perform advanced analysis?
- Will I be editing or maintaining this data in any way?

Routing, Directions, and other Spatial Analysis

- By defining what features are connected, it becomes possible to ‘ask’:
  - What is the most direct path, following the connected features, between points *A* and *B*?
  - For instance, obtaining metro directions to the convention center

Database Structure and Function

- Connected features stay connected even while editing (moving nodes or edges)
- Reduce Number of Points Stored and Retrieved by SDE/Geodatabase
- Snap lower resolution or less critical features to coordinates of more precise data

Topics

- Explain topology and its related components
- Show how to build a topological relationship in ArcGIS
- Discuss the benefits and drawbacks of topological relationships

Data

- What is the source format of the data?
- Are the projections/coordinate systems of the various data the same?
- Does the data already have a topological relationship that can be exploited?

Metadata

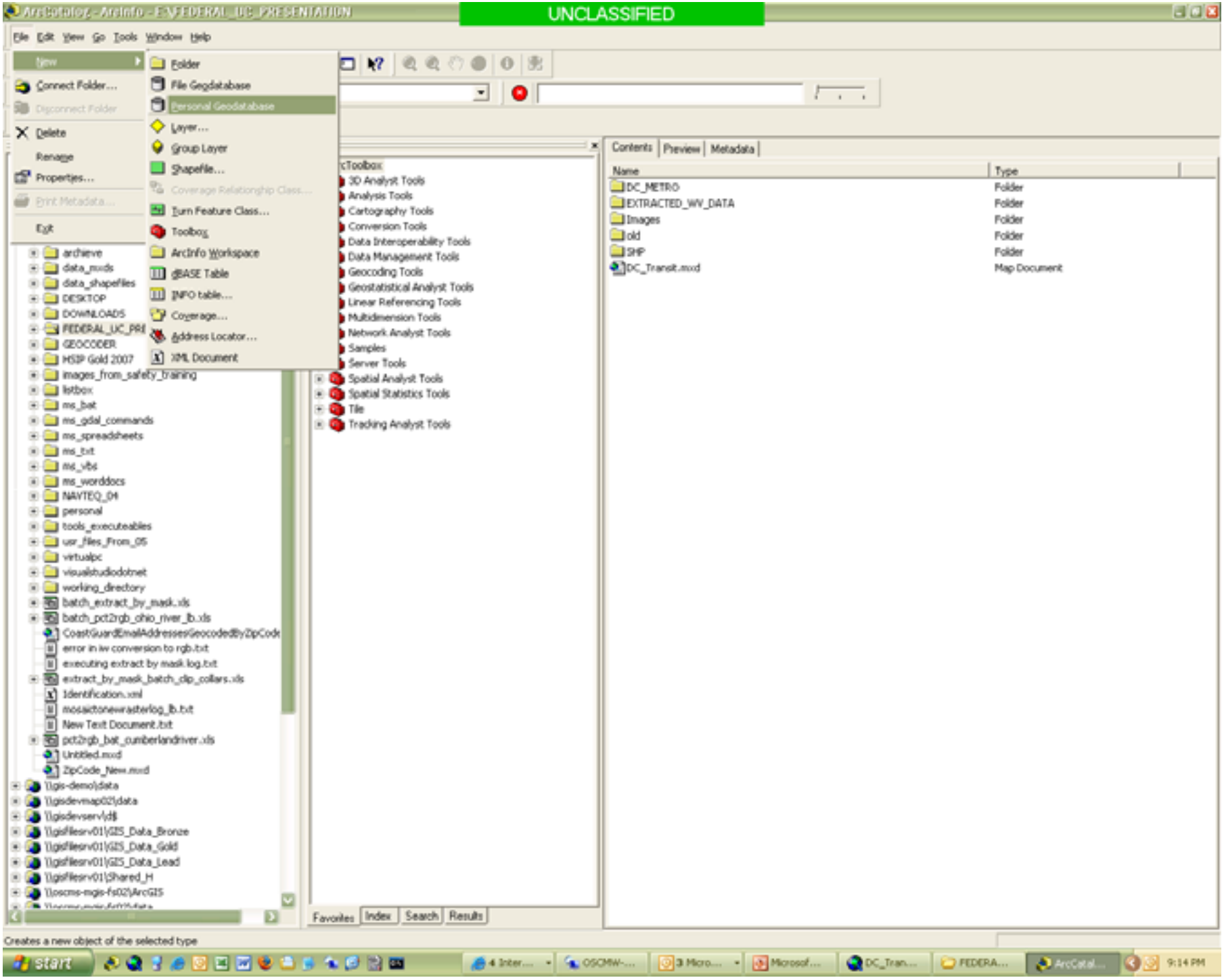
- For what purpose was the data created?
- What is the recommended scale of the data?

Topological Design

- What features will share geometry?
- Should edits to one feature modify others?
- How will data be organized?
- What topological rules will be followed?
- What is the desired accuracy of the data?

Implementation of Topology

- Build Test Database
- Copy Features to Feature Data Sets
- Implement design
- Validate topology
- Edit features
- Observe output
- Modify design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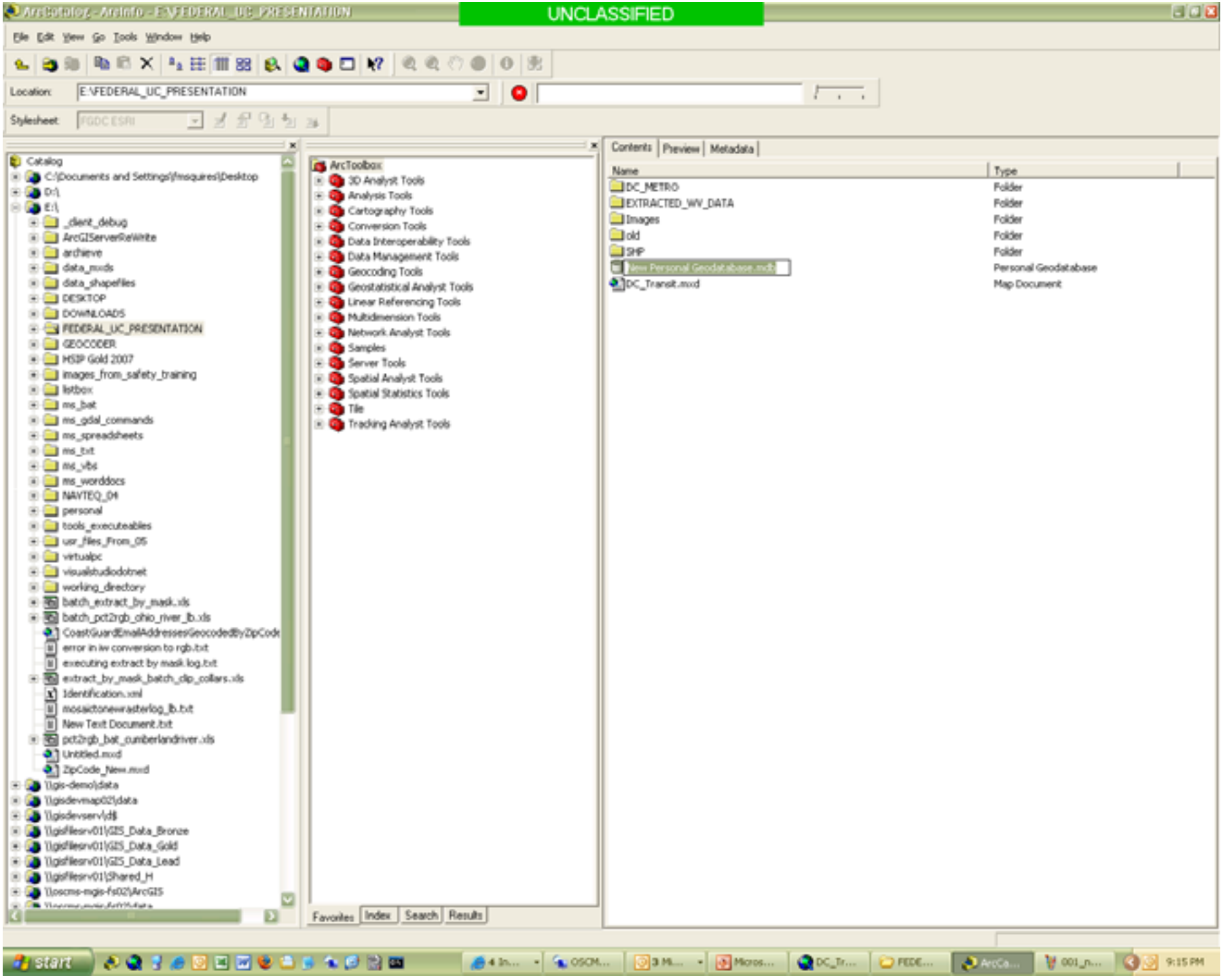
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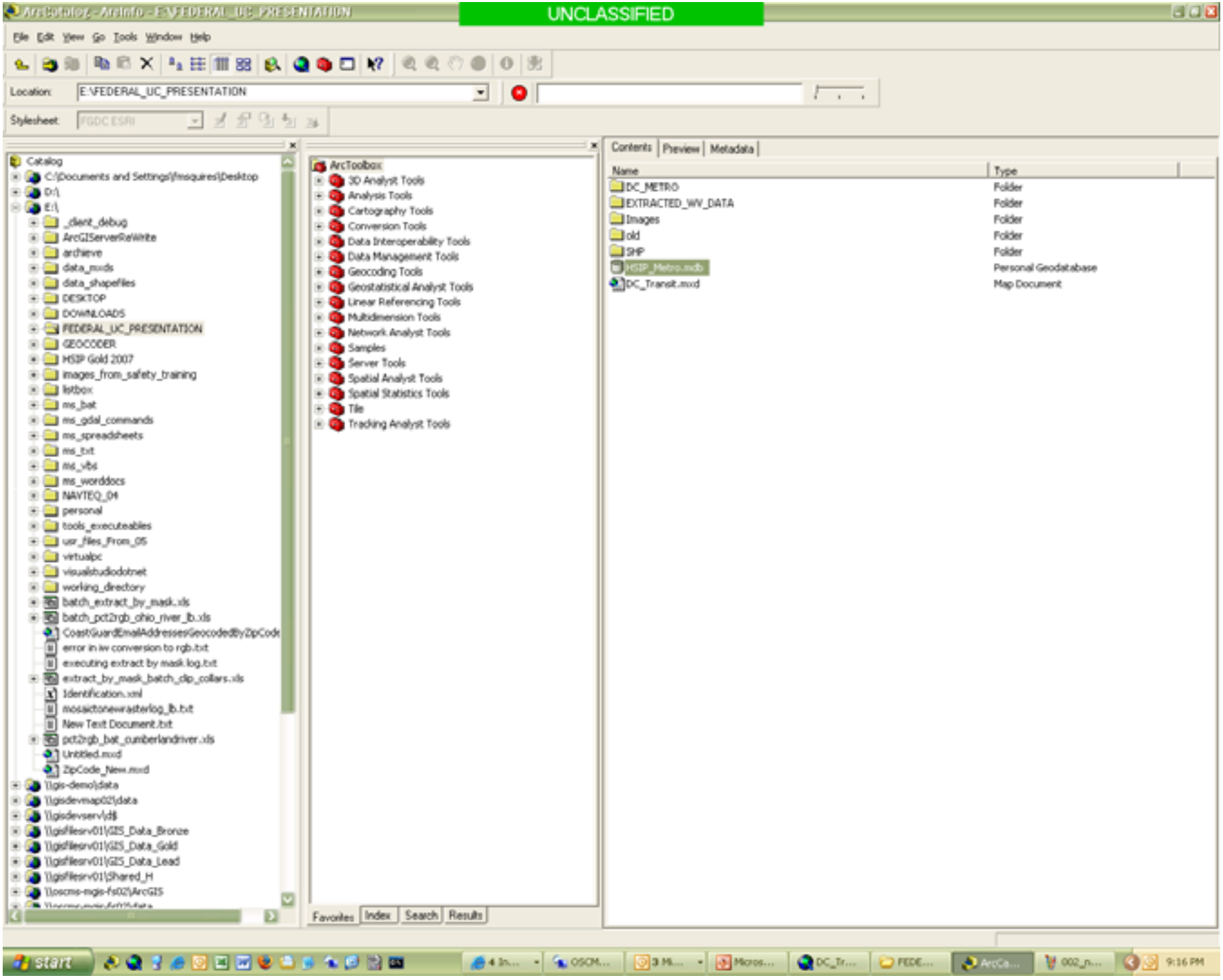
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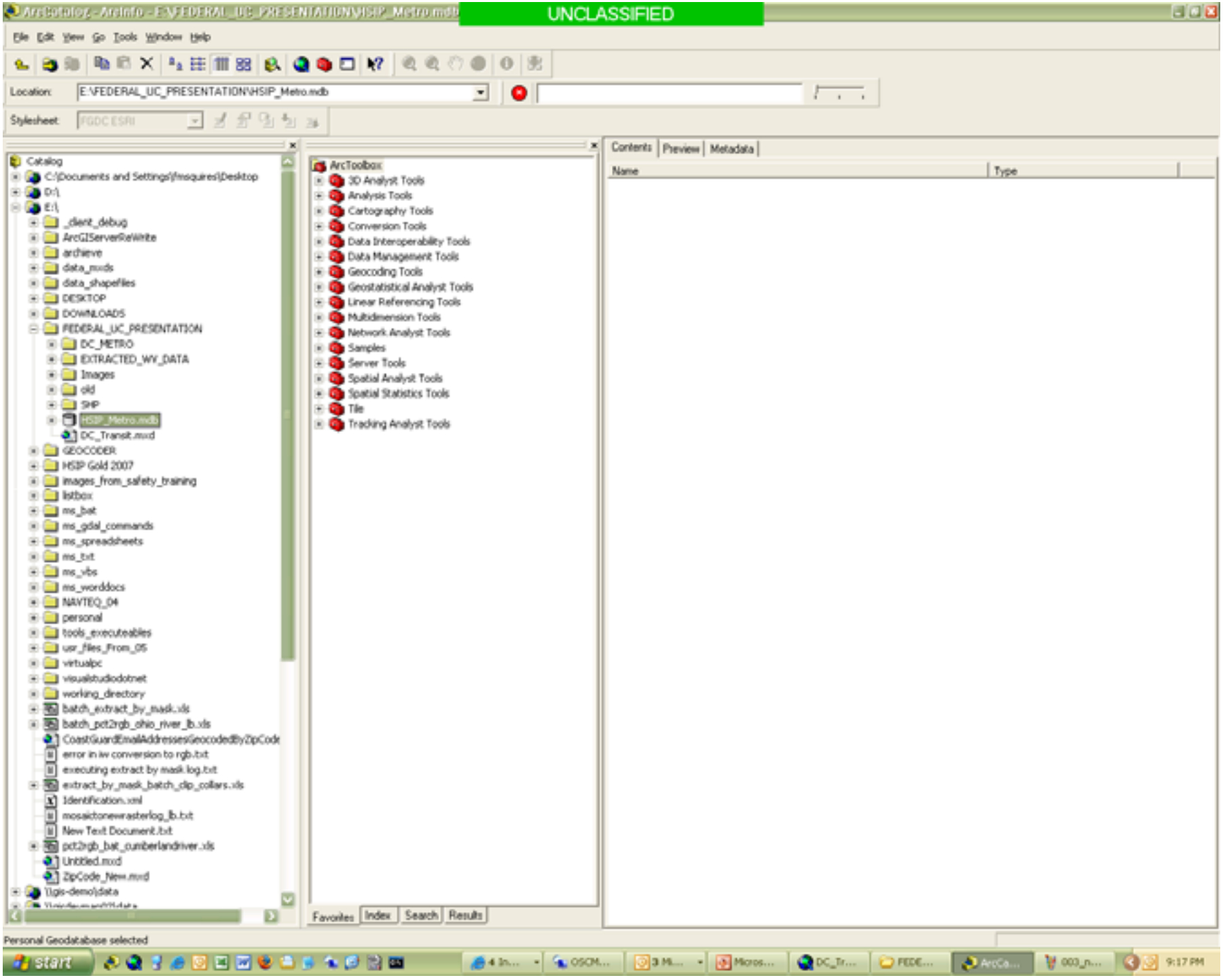
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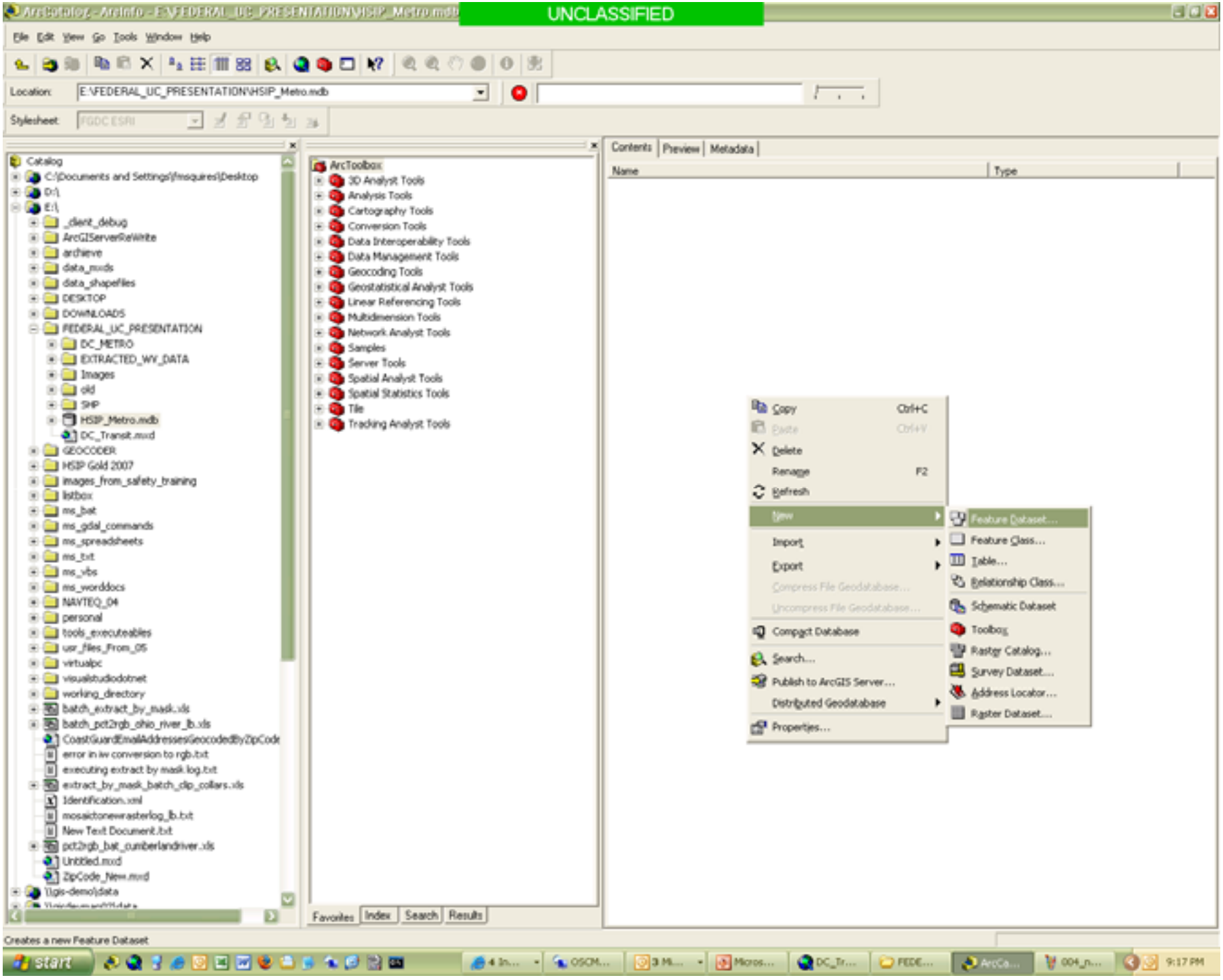
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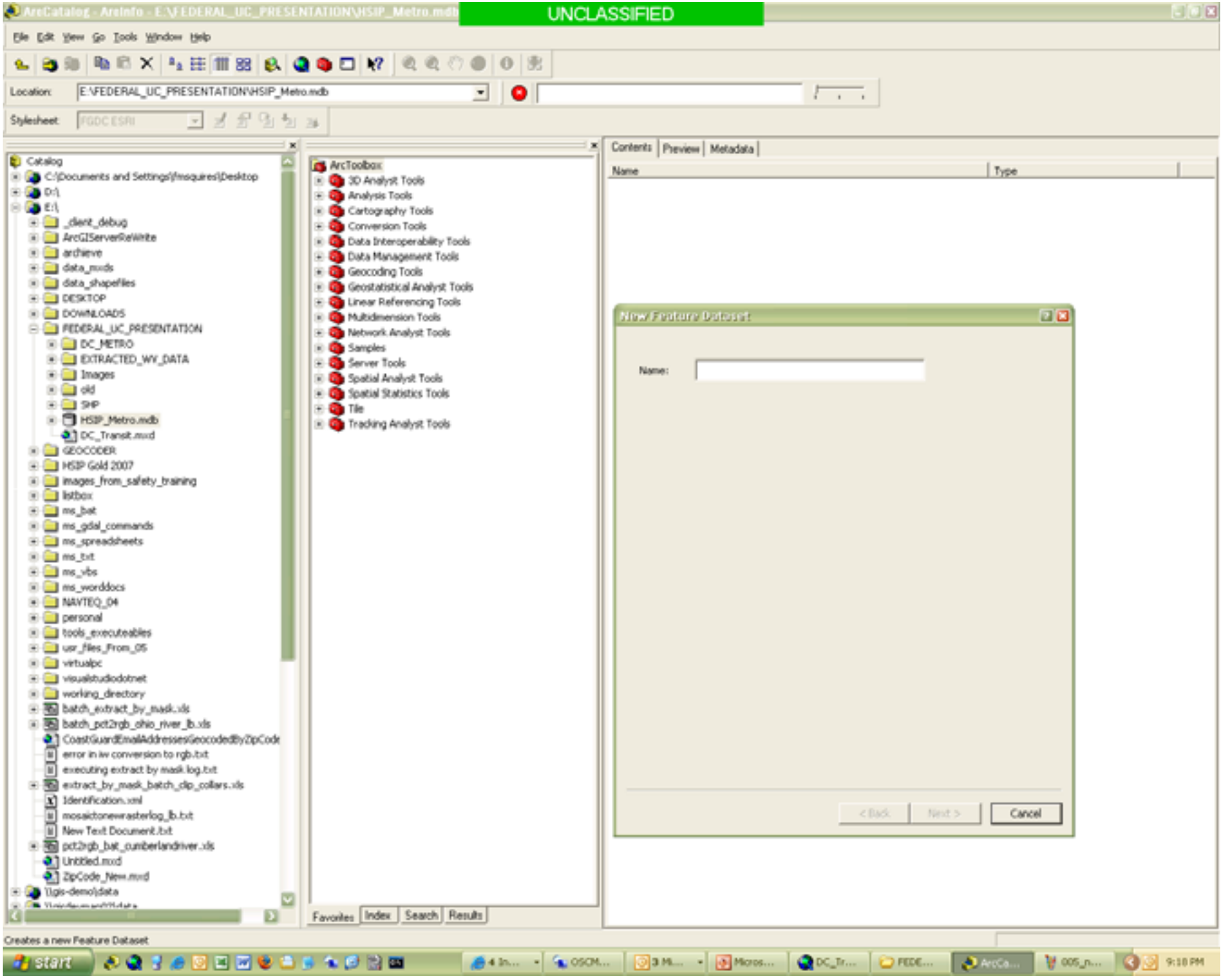
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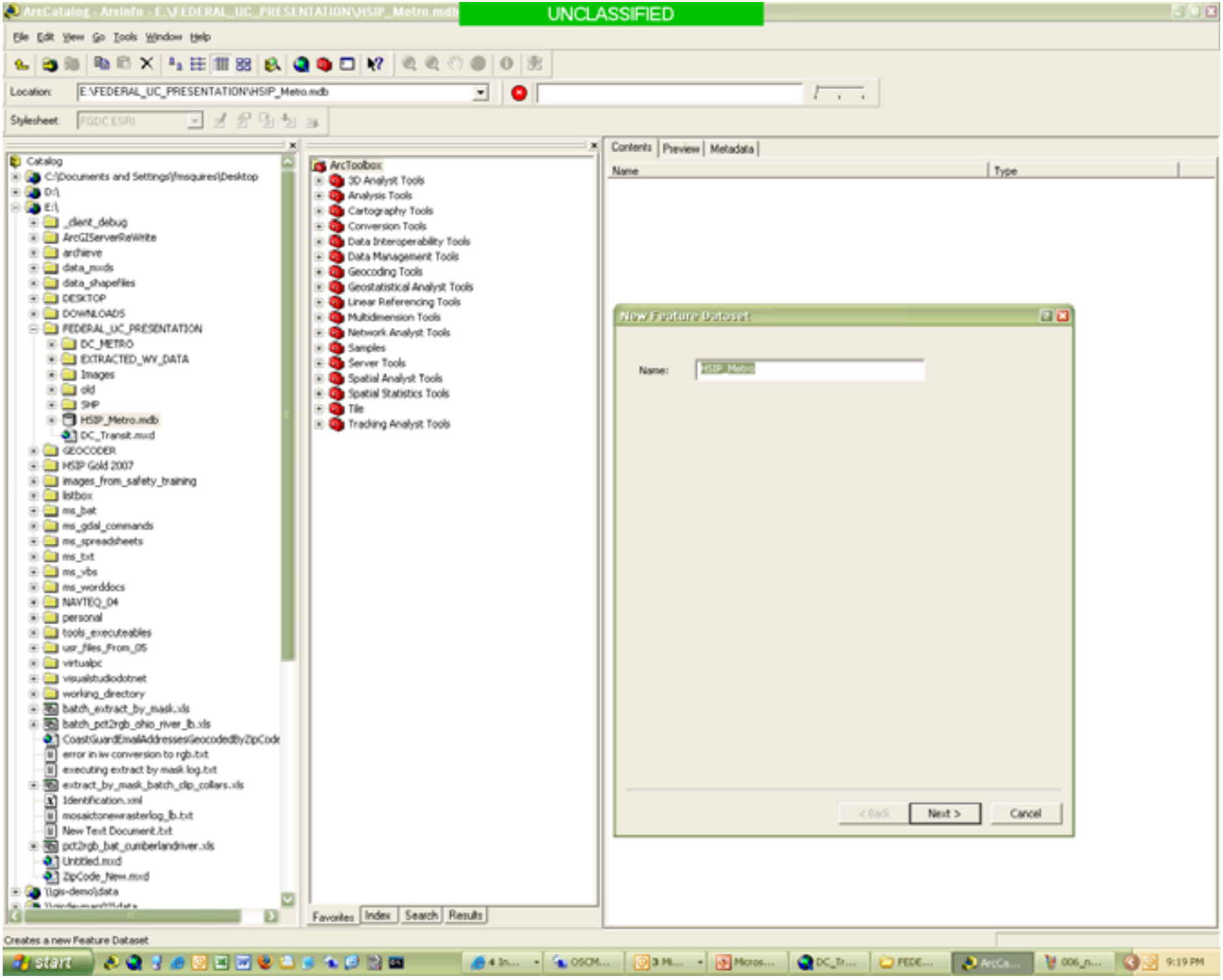
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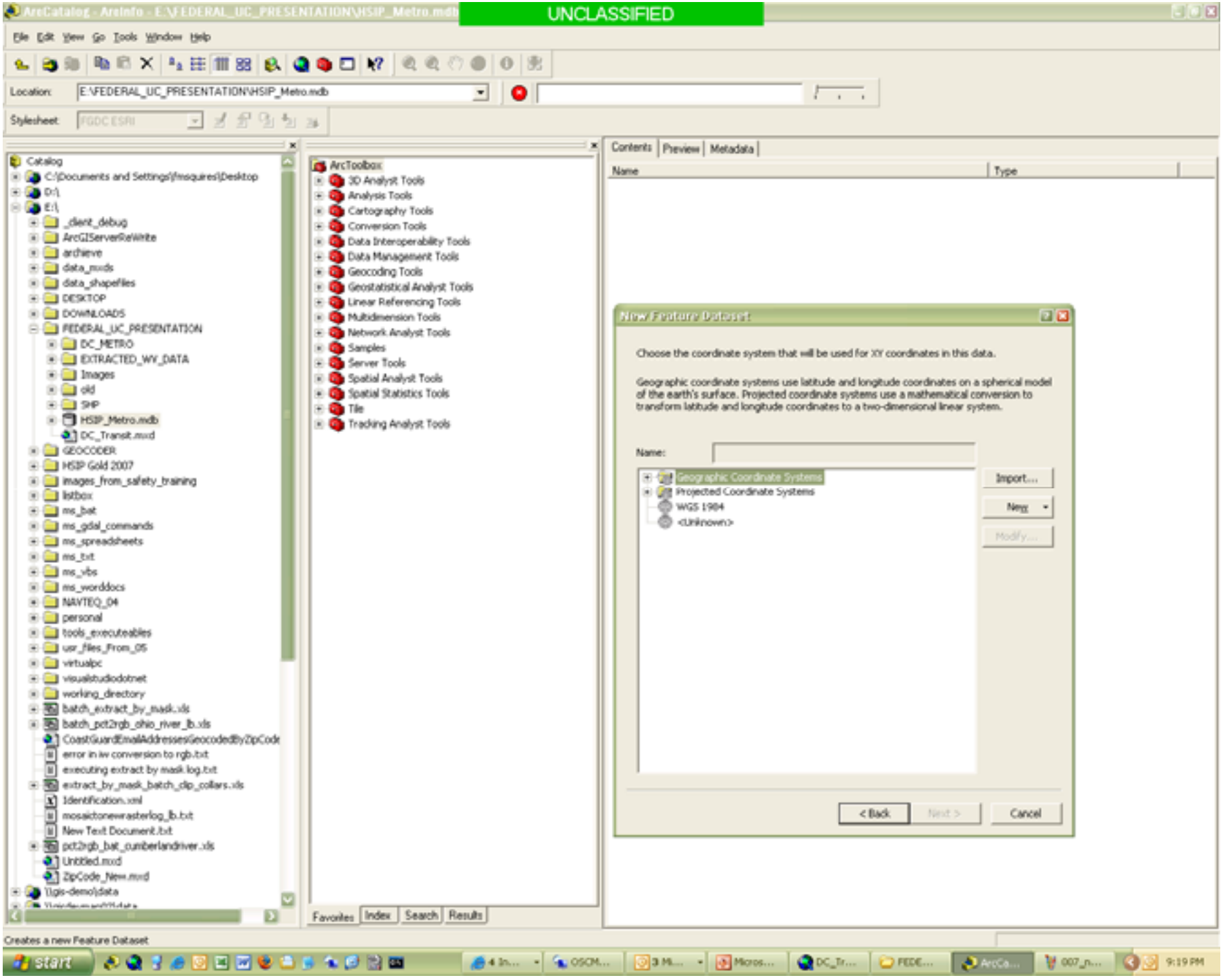
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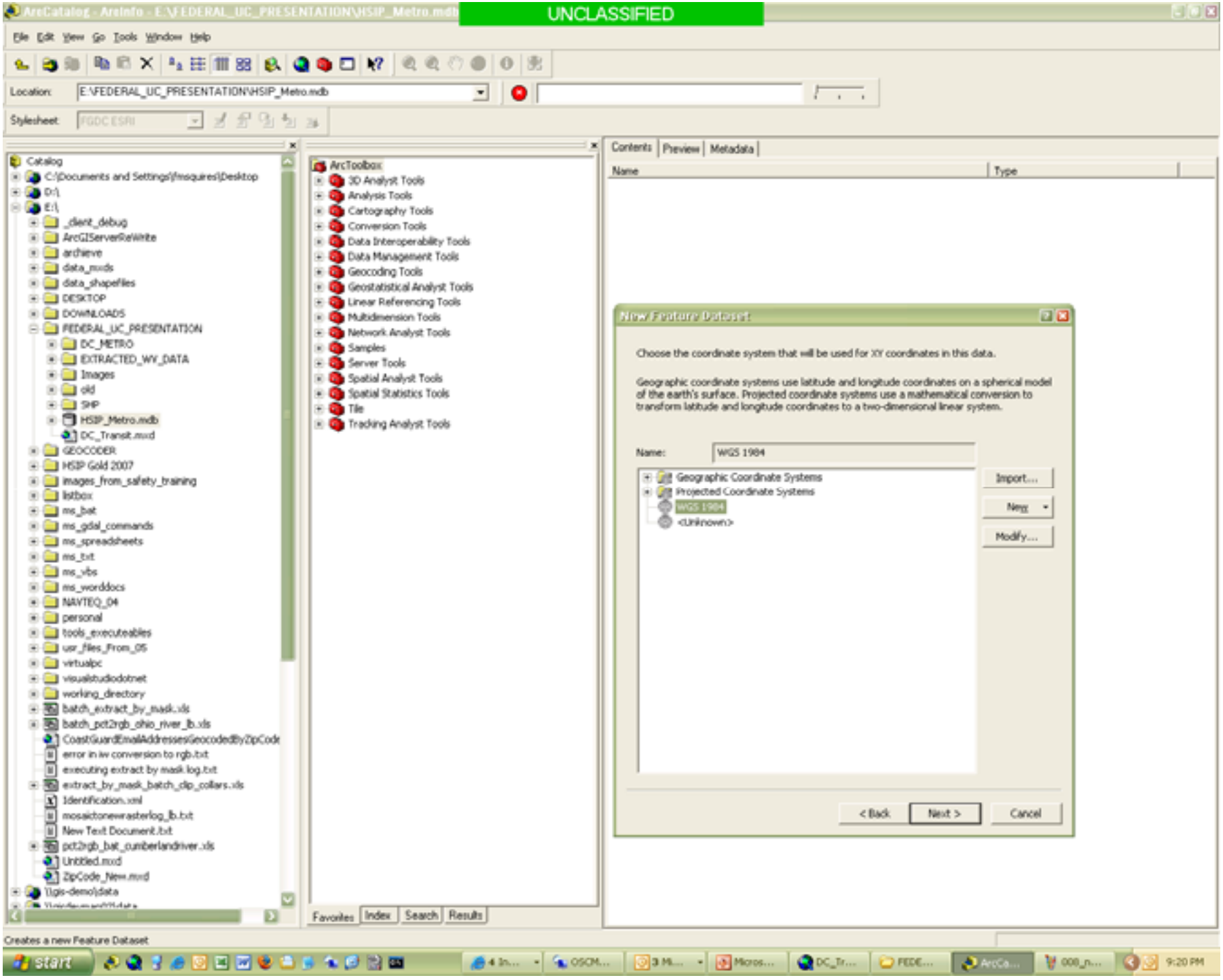
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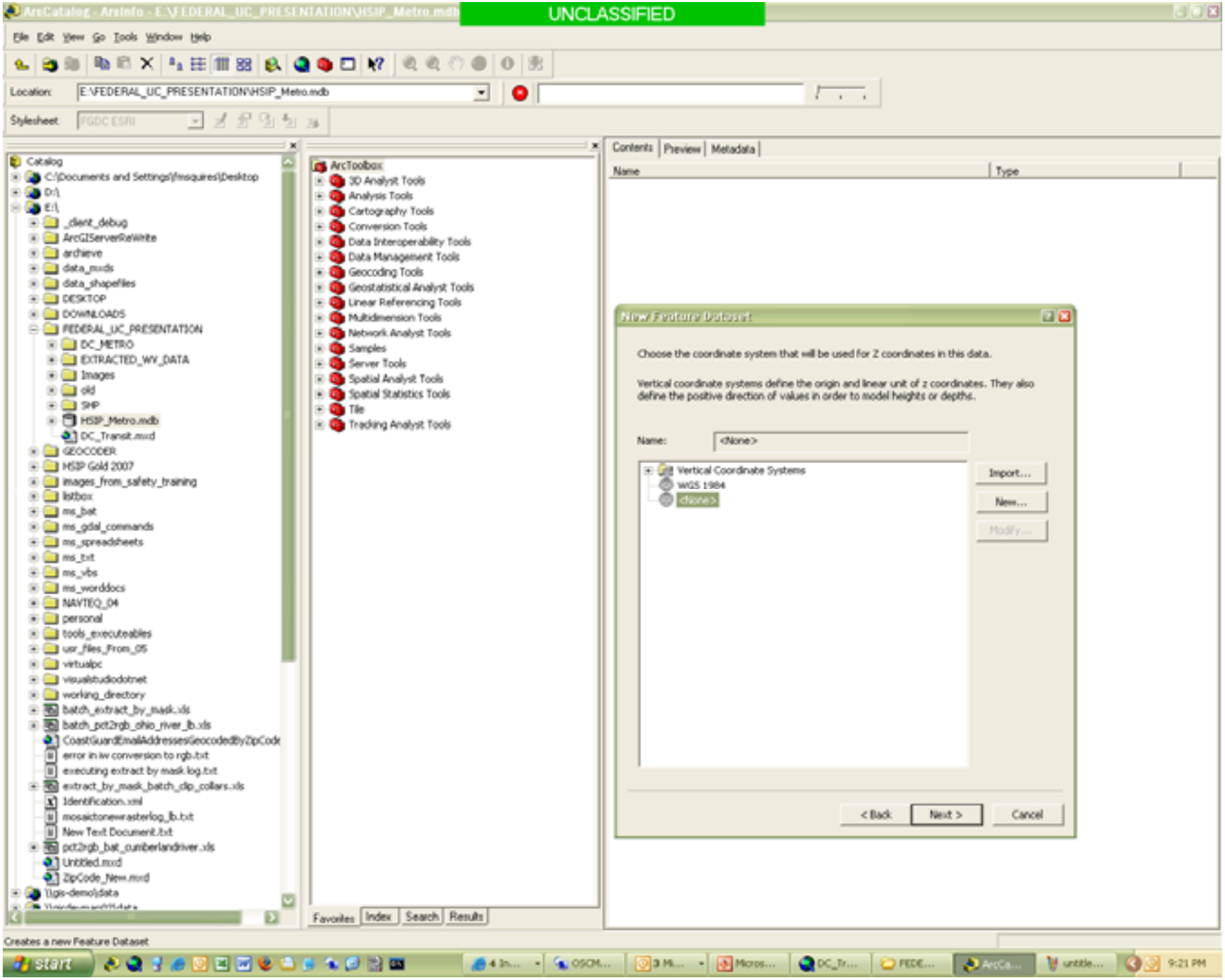
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Name Type
New Feature Dataset
Choose the coordinate system that will be used for Z coordinates in this data.
Vertical coordinate systems define the origin and linear unit of z coordinates. They also define the positive direction of values in order to model heights or depths.
Name: <None>
Vertical Coordinate Systems
WGS 1984
<None>
Import...
New...
Modify...
< Back
Next >
Cancel
Creates a new Feature Dataset
start
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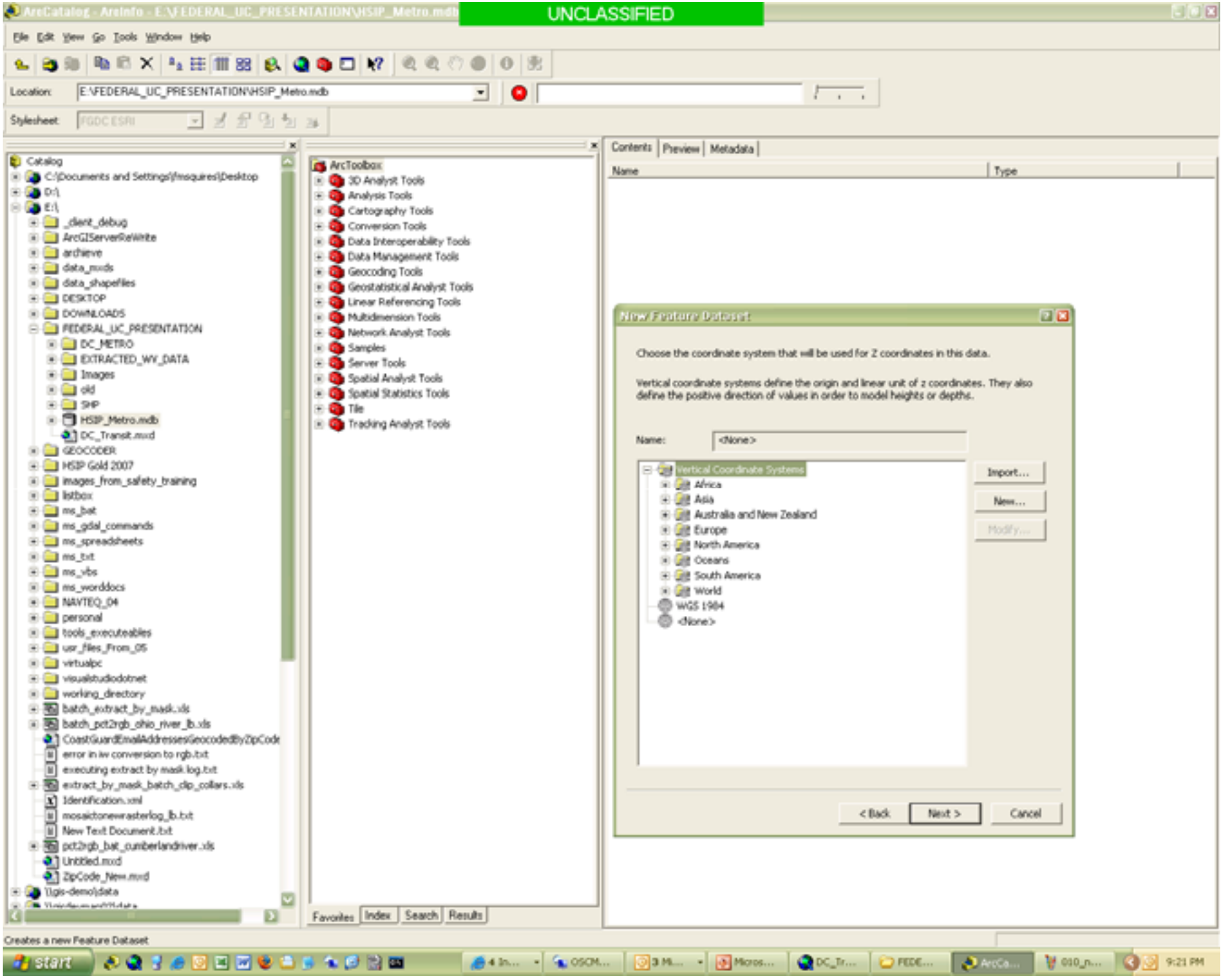
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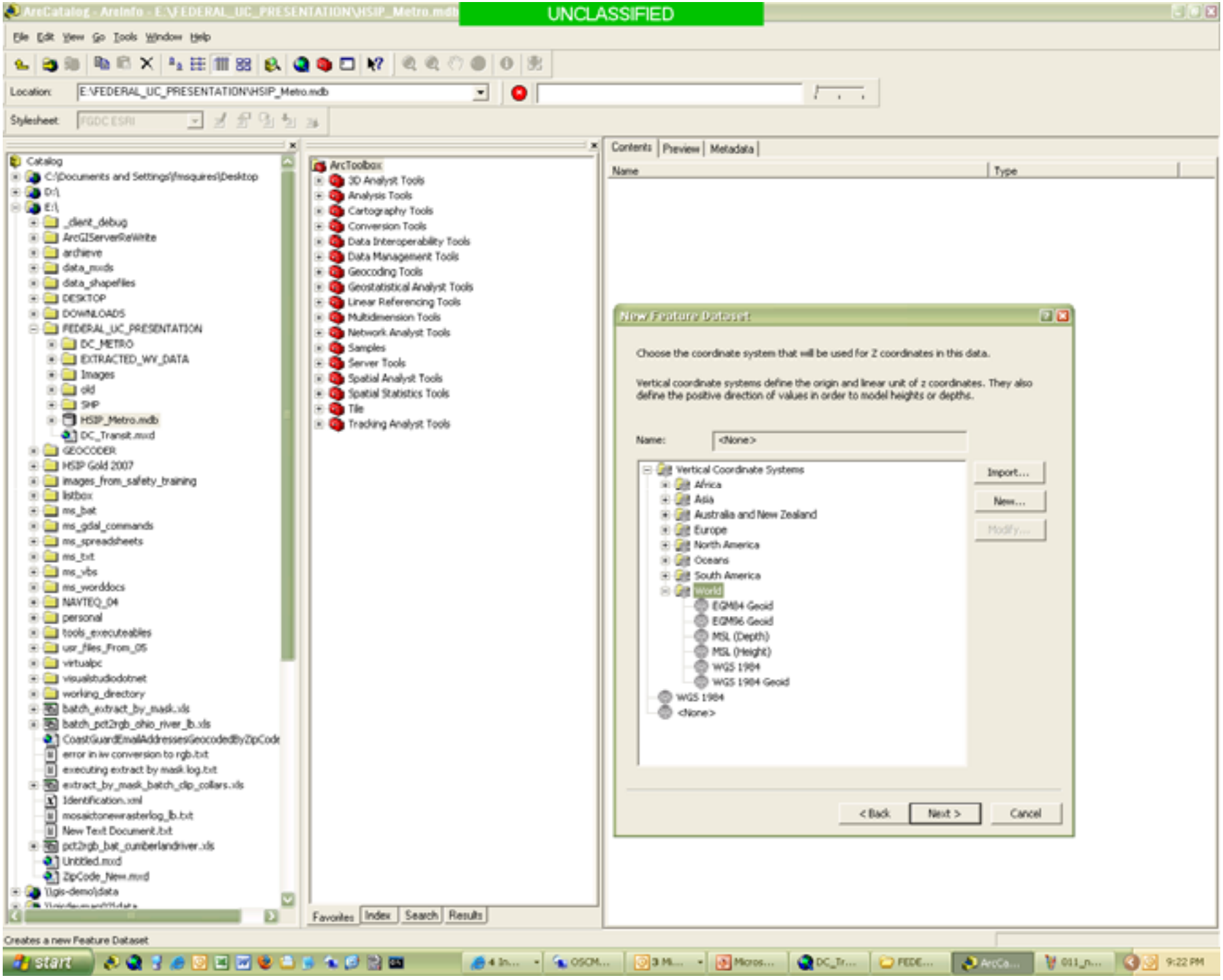
New Feature Dataset
Choose the coordinate system that will be used for Z coordinates in this data.
Vertical coordinate systems define the origin and linear unit of z coordinates. They also define the positive direction of values in order to model heights or depths.
Name: <None>
Vertical Coordinate Systems
Africa
Asia
Australia and New Zealand
Europe
North America
Oceans
South America
World
WGS 1984
<None>
Import...
New...
Modify...
< Back
Next >
Cancel
Creates a new Feature Dataset
start
9:21 PM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New Feature Dataset
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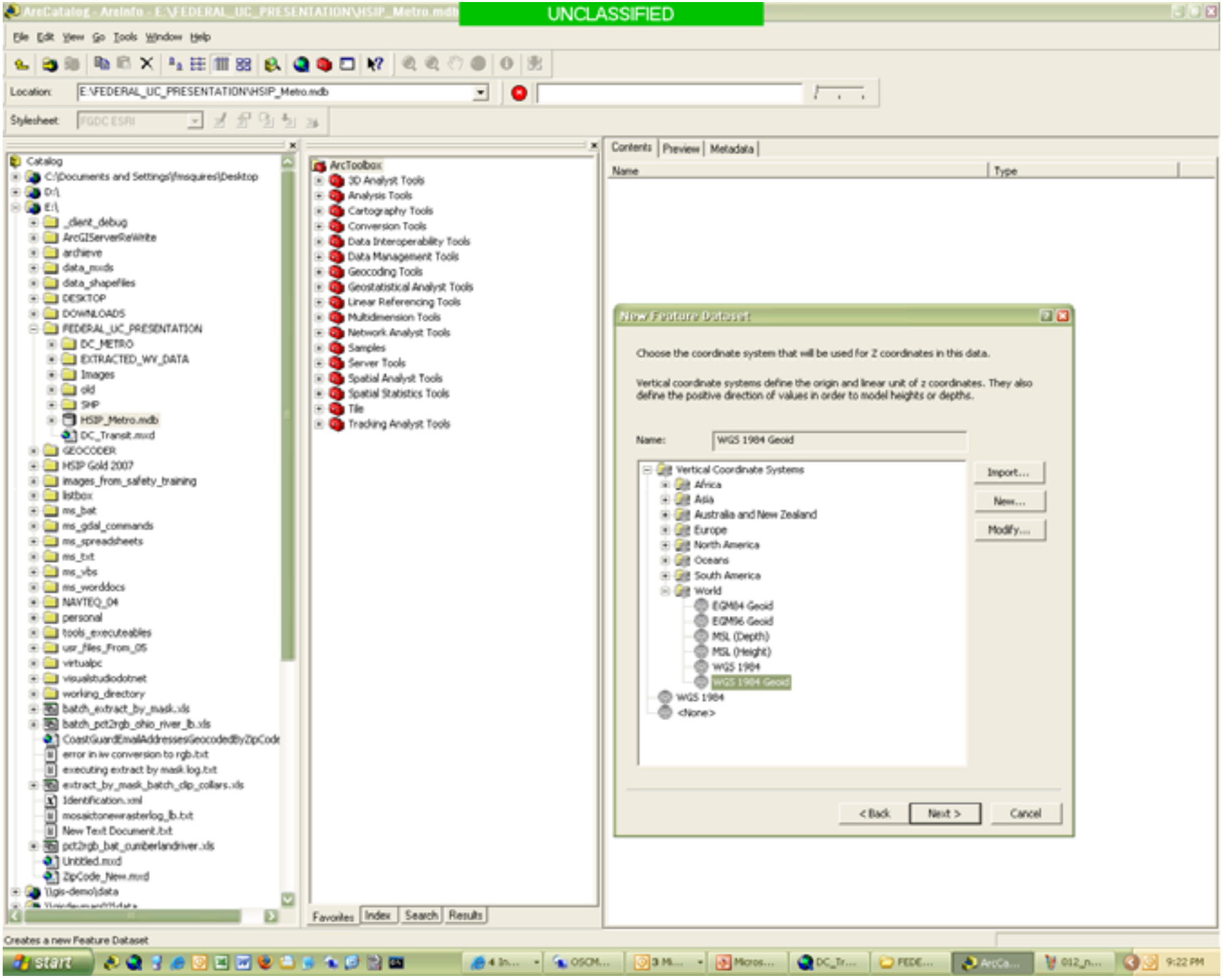
Vertical coordinate systems define the origin and linear unit of z coordinates. They also define the positive direction of values in order to model heights or depths.
Name: <None>
Vertical Coordinate Systems
Africa
Asia
Australia and New Zealand
Europe
North America
Oceans
South America
World
EGM84 Geoid
EGM96 Geoid
MSL (Depth)
MSL (Height)
WGS 1984
WGS 1984 Geoid
WGS 1984
<None>
Import...
New...
Modify...
< Back
Next >
Cancel
Creates a new Feature Dataset
start
9:22 PM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Name Type
New Feature Dataset
Choose the coordinate system that will be used for Z coordinates in this data.
Vertical coordinate systems define the origin and linear unit of z coordinates. They also define the positive direction of values in order to model heights or depths.
Name: WGS 1984 Geoid
Vertical Coordinate Systems
Africa
Asia
Australia and New Zealand
Europe
North America
Oceans
South America
World
EGM84 Geoid
EGM96 Geoid
MSL (Depth)
MSL (Height)
WGS 1984
WGS 1984 Geoid
WGS 1984
<None>
Import...
New...
Modify...
< Back
Next >
Cancel
Creates a new Feature Dataset
start
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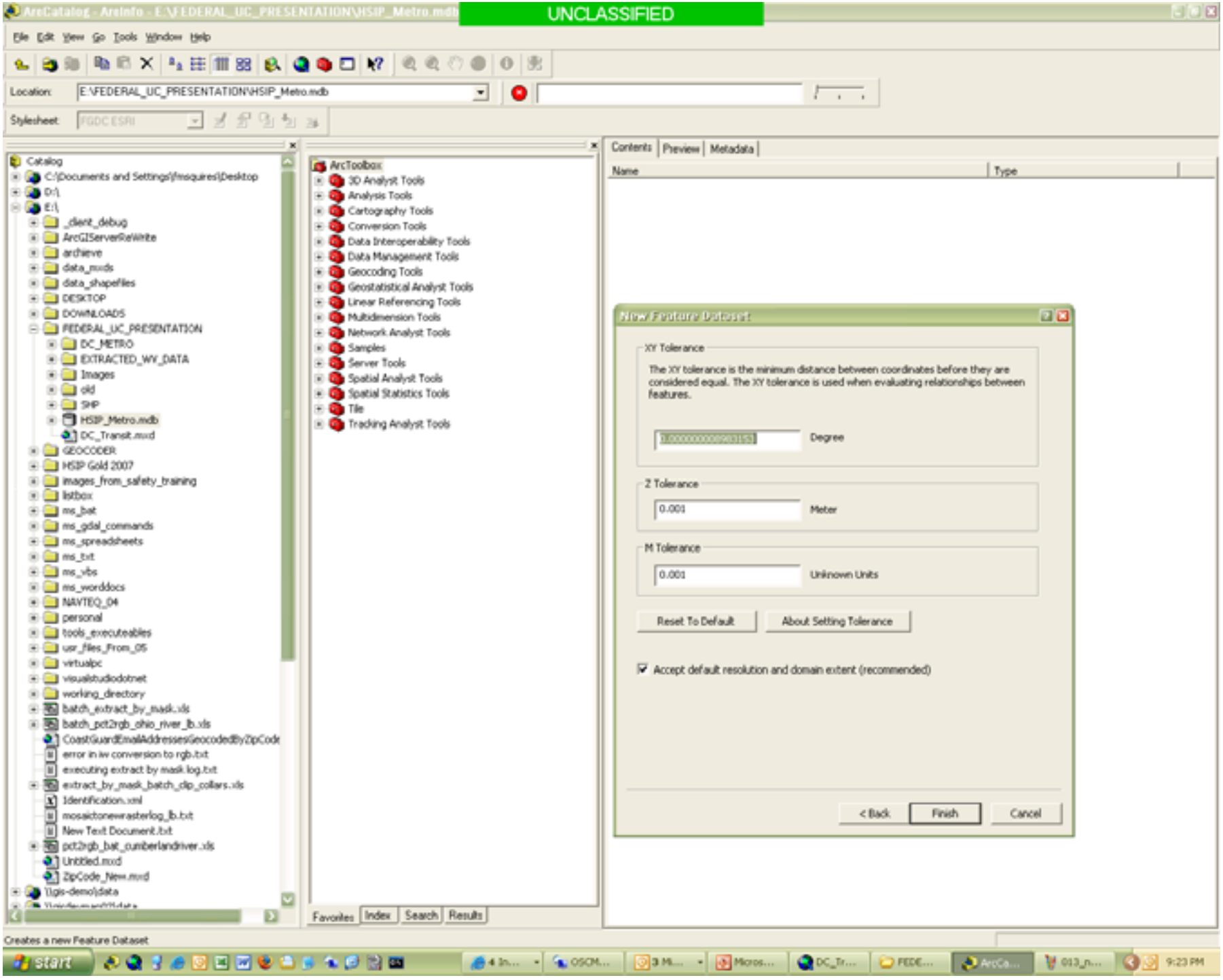
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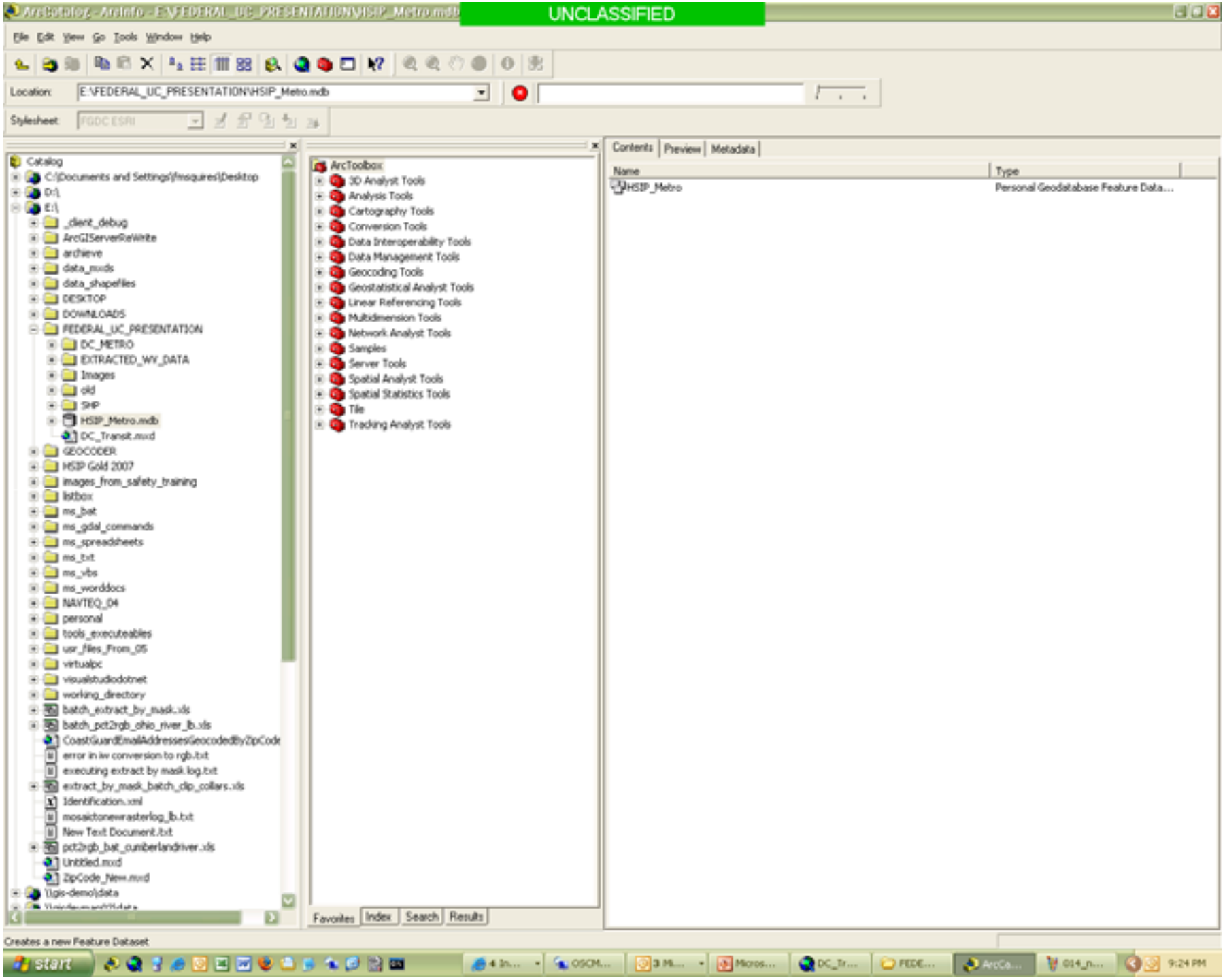
New Feature Dataset
XY Tolerance
The XY tolerance is the minimum distance between coordinates before they are considered equal. The XY tolerance is used when evaluating relationships between features.
0.000000008983153
Degree
Z Tolerance
0.001
Meter
M Tolerance
0.001
Unknown Units
Reset To Default
About Setting Tolerance
Accept default resolution and domain extent (recommended)
< Back
Finish
Cancel
Creates a new Feature Dataset
start
9:23 PM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Type
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Personal Geodatabase Feature Data...
Creates a new Feature Dataset
start
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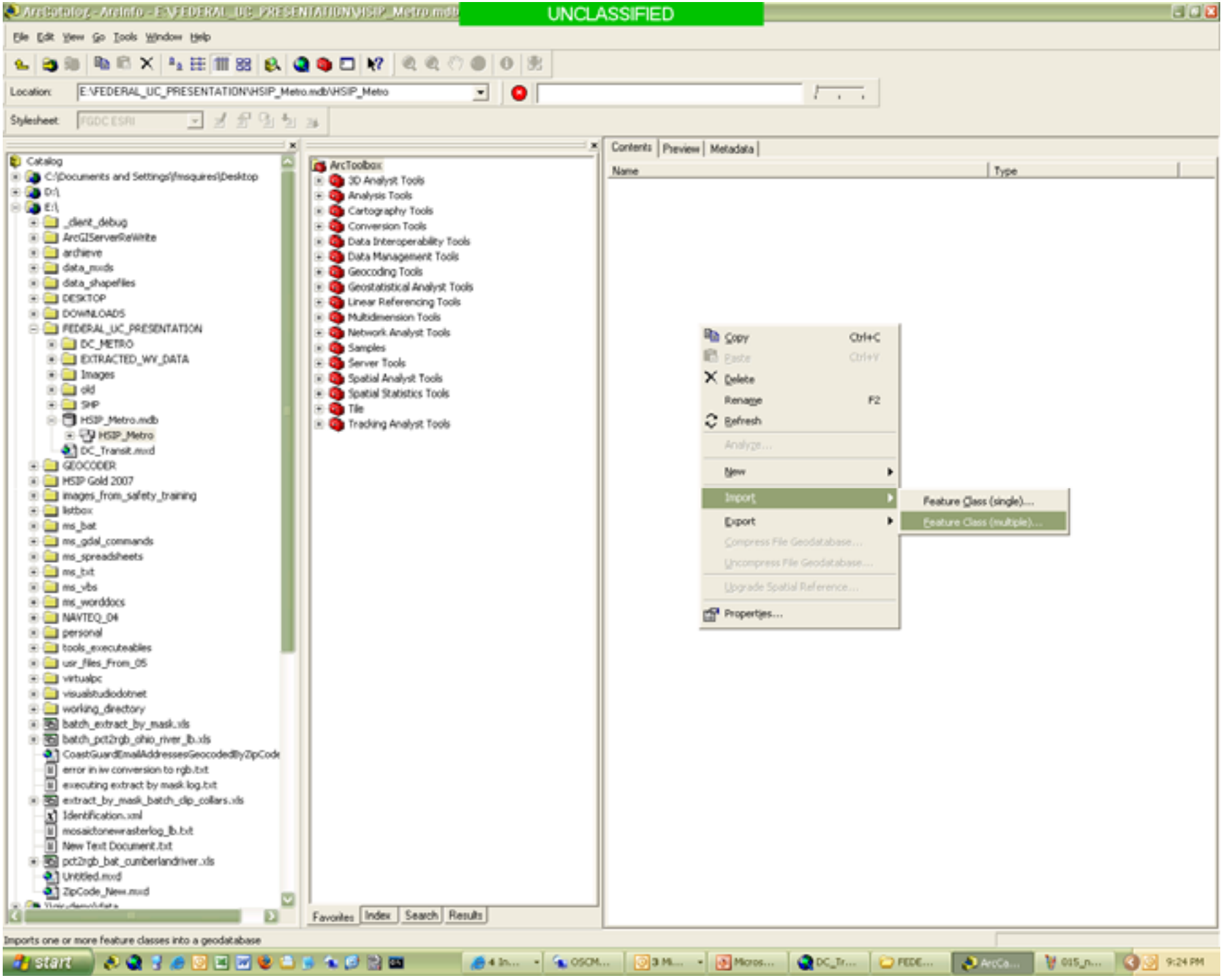
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File Edit View Go Tools Window Help
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Paste Ctrl+V
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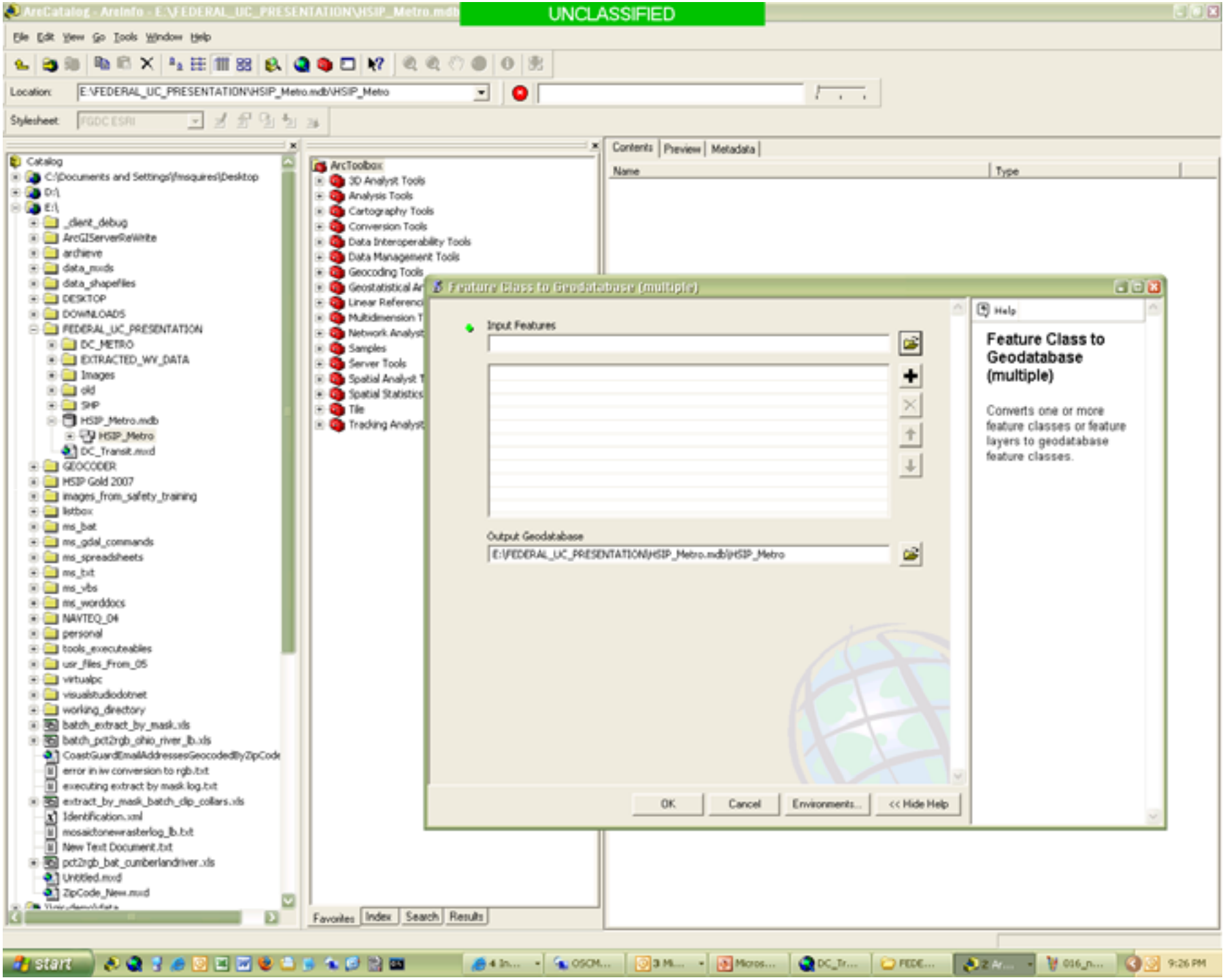
Compress File Geodatabase...
Uncompress File Geodatabase...
Upgrade Spatial Reference...
Properties...
Feature Class (single)...
Feature Class (multiple)...
Imports one or more feature classes into a geodatabase
start
9:24 PM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Feature Class to Geodatabase (multiple)
Input Features
Output Geodatabase
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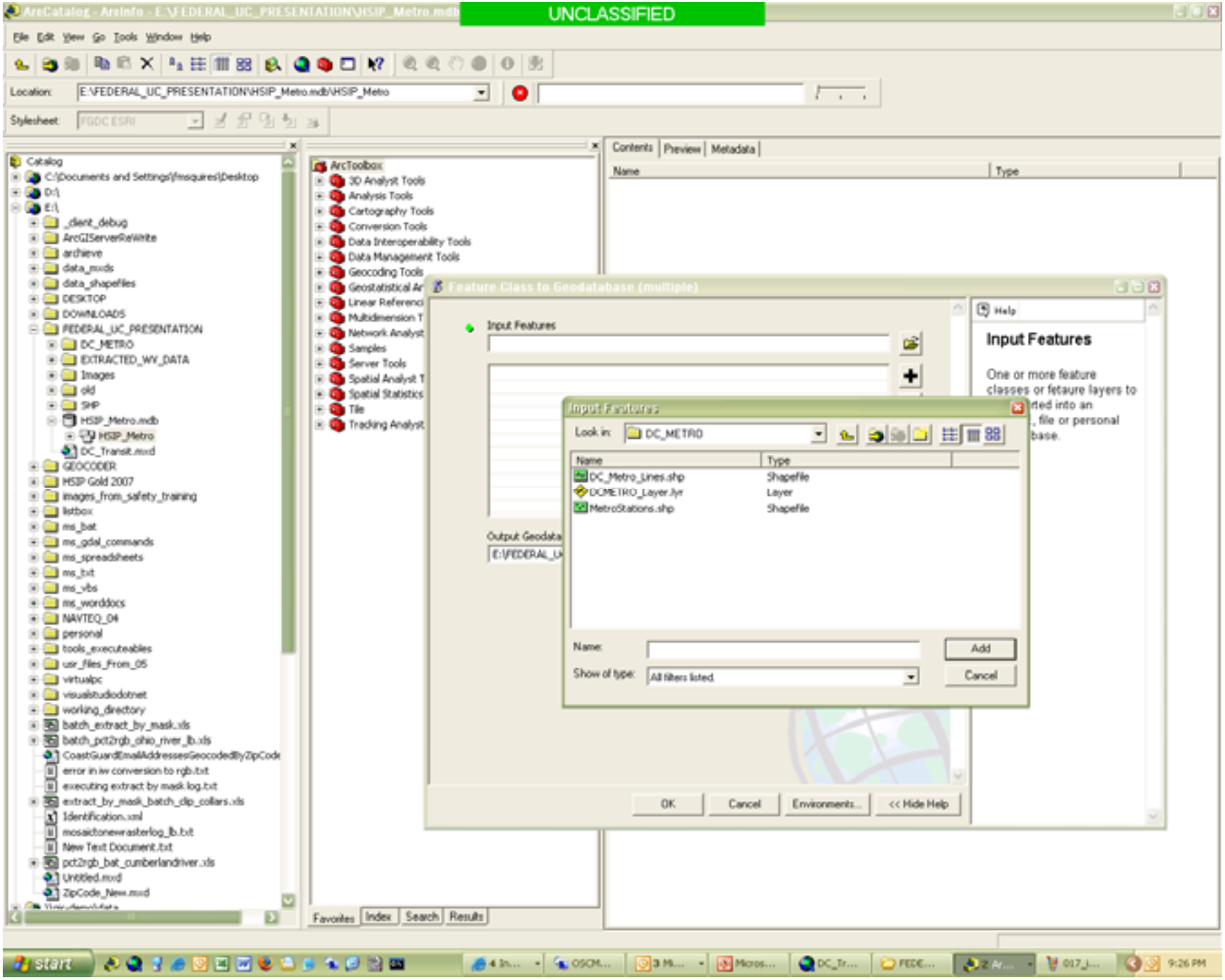
OK Cancel Environments... << Hide Help
Help
Feature Class to Geodatabase (multiple)
Converts one or more feature classes or feature layers to geodatabase feature classes.
start
9:26 PM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Input Features
One or more feature classes or fetaure layers to
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, file or personal
base.
Input Features
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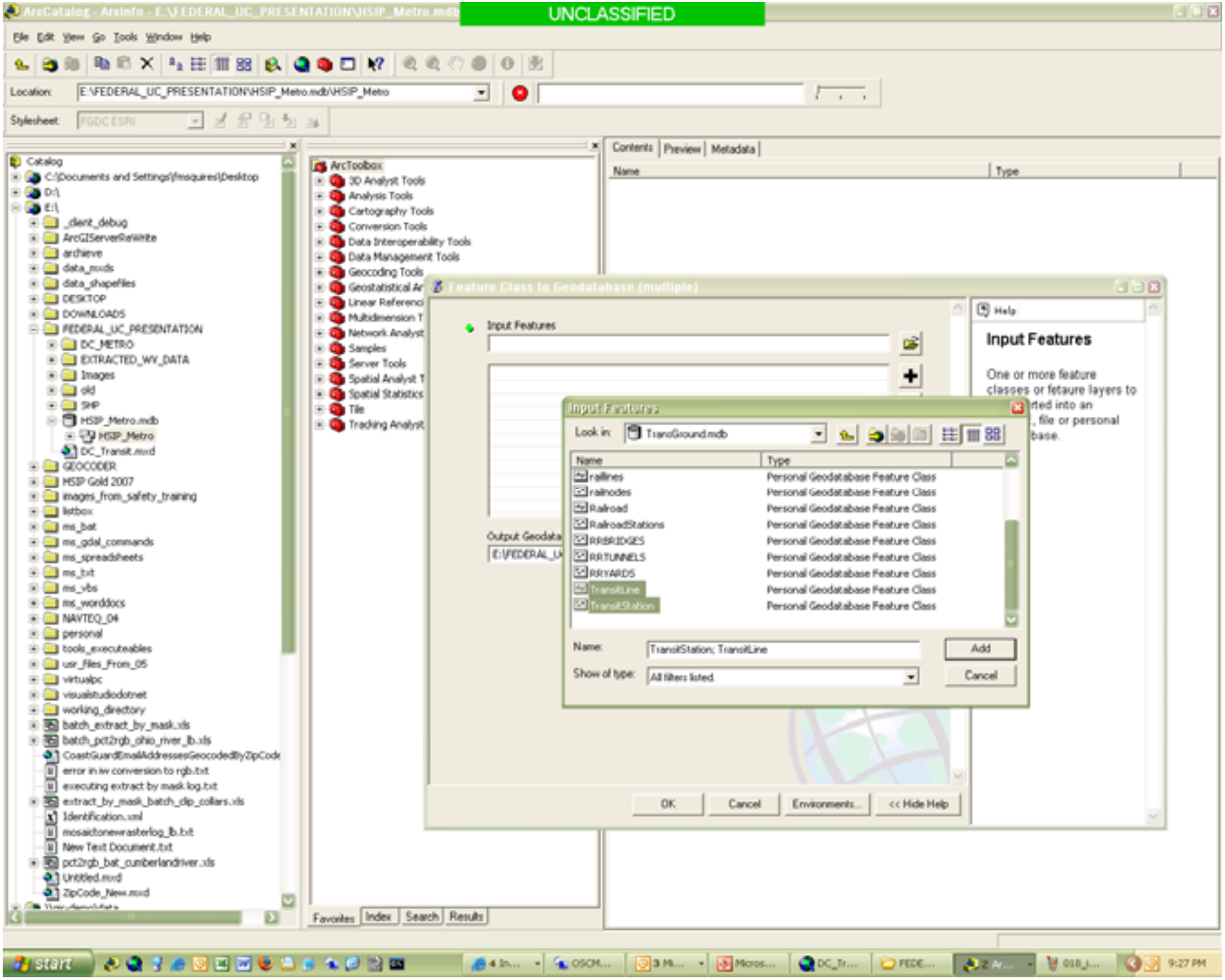
Name:
Add
Show of type:
All filters listed
Cancel
start
9:26 PM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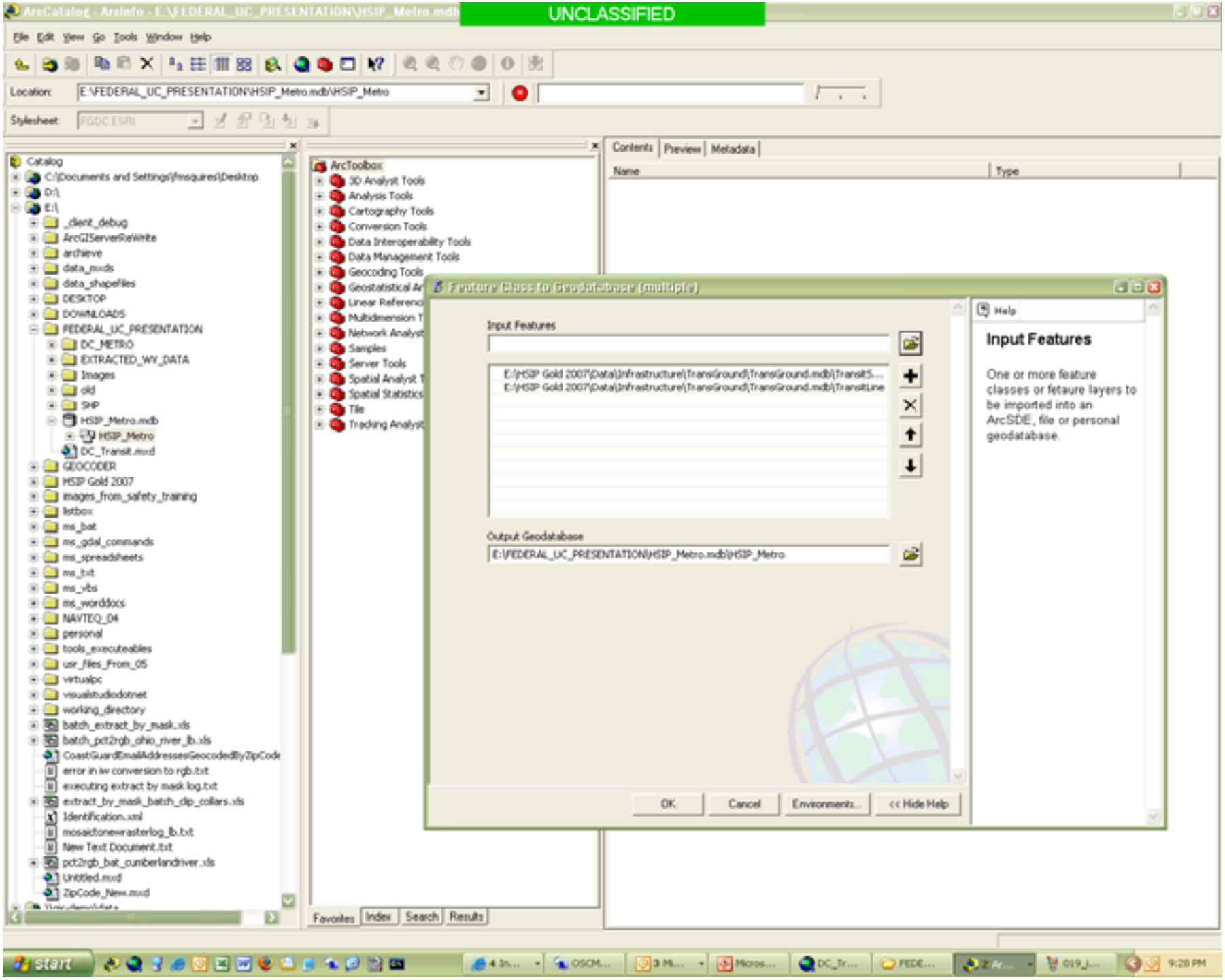
Input Features
Output Geodata
E:\FEDERAL_U
OK
Cancel
Environments...
<< Hide Help
Help
Input Features
One or more feature classes or fetaure layers to
rted into an
, file or personal
base.
Input Features
Look in:
TransGround.mdb
Name
Type
raillines
railnodes
Railroad
RailroadStations
RRBRIDGES
RRTUNNELS
RRYARDS
TransitLine
TransitStation
Personal Geodatabase Feature Class
Name:
TransitStation; TransitLine
Show of type:
All filters listed
Add
Cancel
start
9:27 PM


UNCLASSIFIED
ArcCatalog - ArcInfo - E:\FEDERAL_UC_PRESENTATION\HSIP_Metro.mdb
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Location: E:\FEDERAL_UC_PRESENTATION\HSIP_Metro.mdb\HSIP_Metro
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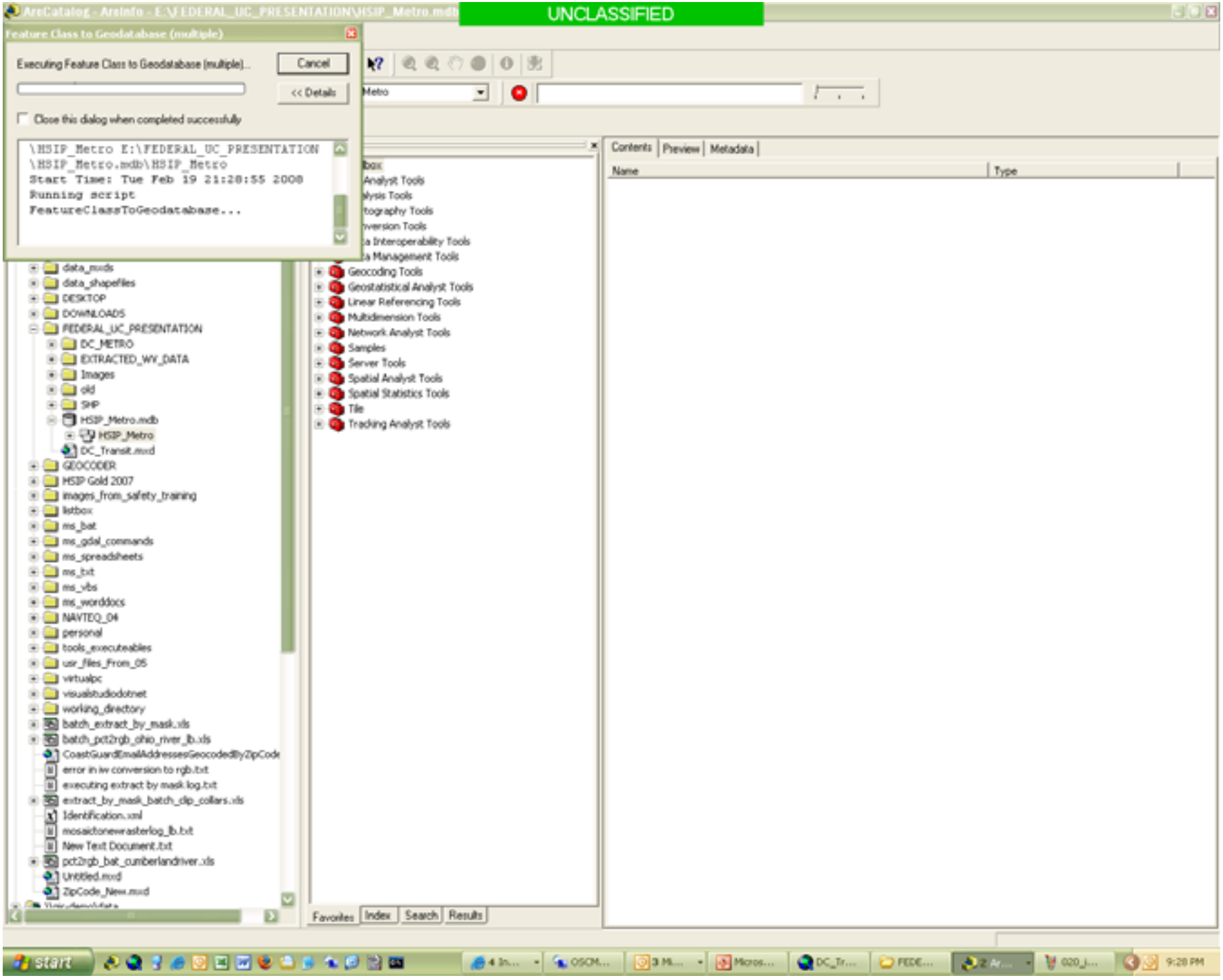
E:\HSIP Gold 2007\Data\Infrastructure\TransGround\TransGround.mdb\TransitLine
Output Geodatabase
E:\FEDERAL_UC_PRESENTATION\HSIP_Metro.mdb\HSIP_Metro
OK Cancel Environments... << Hide Help
Help
Input Features
One or more feature classes or feature layers to be imported into an ArcSDE, file or personal geodatabase.
start
9:20 PM


UNCLASSIFIED
Feature Class to Geodatabase (multiple)
Executing Feature Class to Geodatabase (multiple)...
Cancel
<< Details
Close this dialog when completed successfully
\HSIP_Metro E:\FEDERAL_UC_PRESENTATION
\HSIP_Metro.mdb\HSIP_Metro
Start Time: Tue Feb 19 21:20:55 2008
Running script
FeatureClassToGeodatabase...
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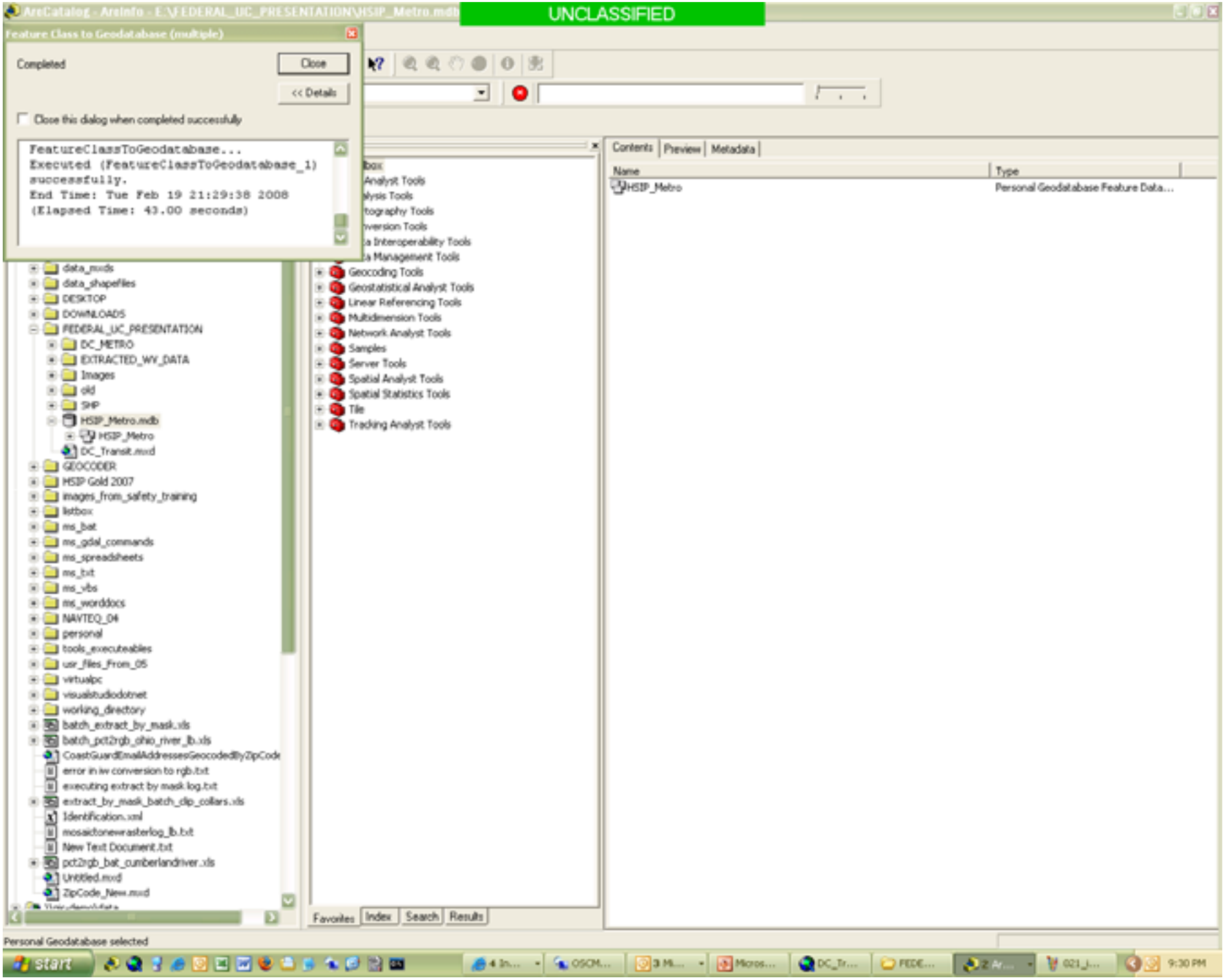
UNCLASSIFIED
Feature Class to Geodatabase (multiple)
Completed
Close
<< Details
Close this dialog when completed successfully
FeatureClassToGeodatabase...
Executed (FeatureClassToGeodatabase_1)
successfully.
End Time: Tue Feb 19 21:29:38 2008
(Elapsed Time: 43.00 seconds)
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start
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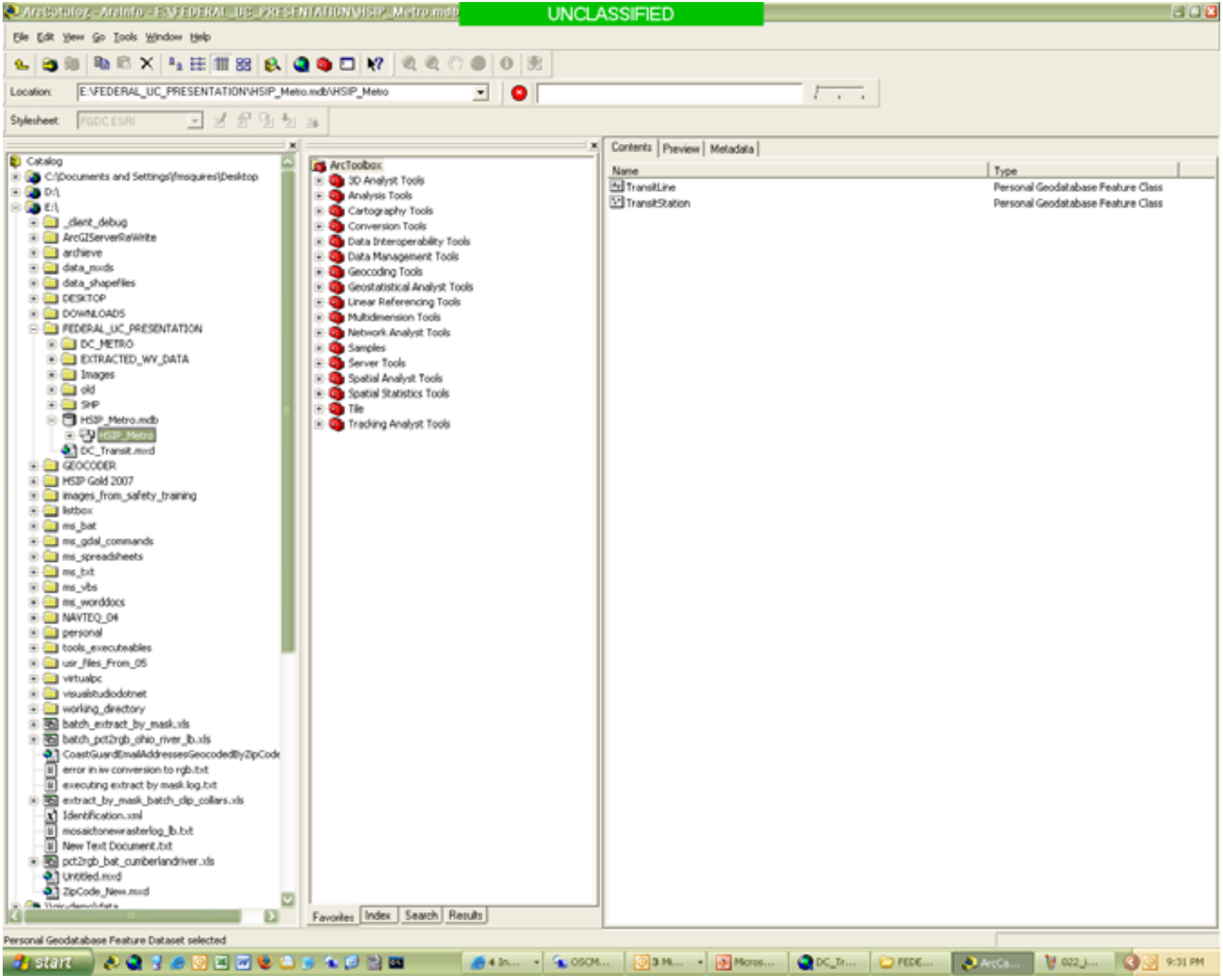
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Location: E:\FEDERAL_UC_PRESENTATION\HSIP_Metro.mdb\HSIP_Metro
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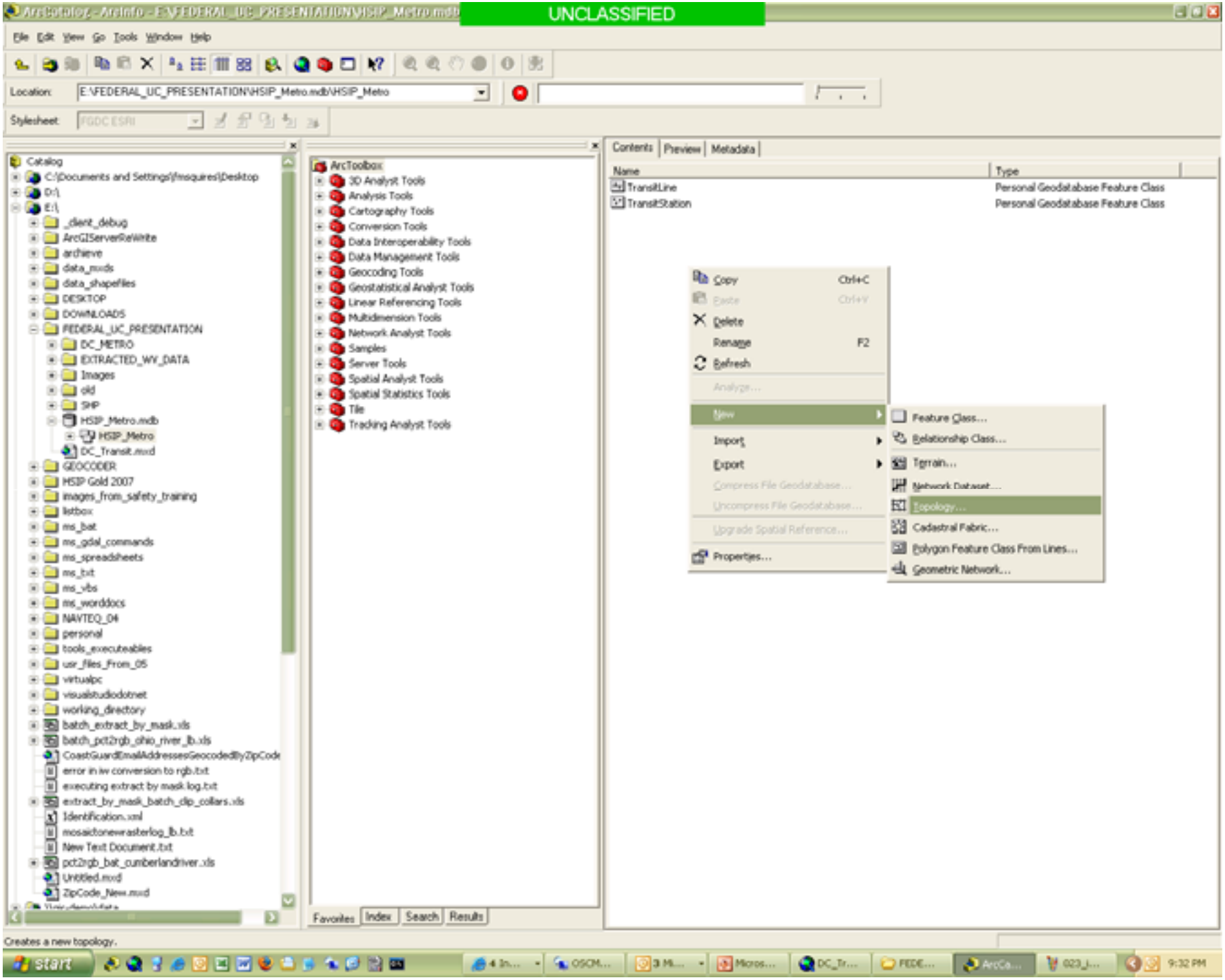
TransitStation
Personal Geodatabase Feature Class
Personal Geodatabase Feature Dataset selected
start
9:31 PM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File Edit View Go Tools Window Help
Location: E:\FEDERAL_UC_PRESENTATION\HSIP_Metro.mdb\HSIP_Metro
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Personal Geodatabase Feature Class
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Paste Ctrl+V
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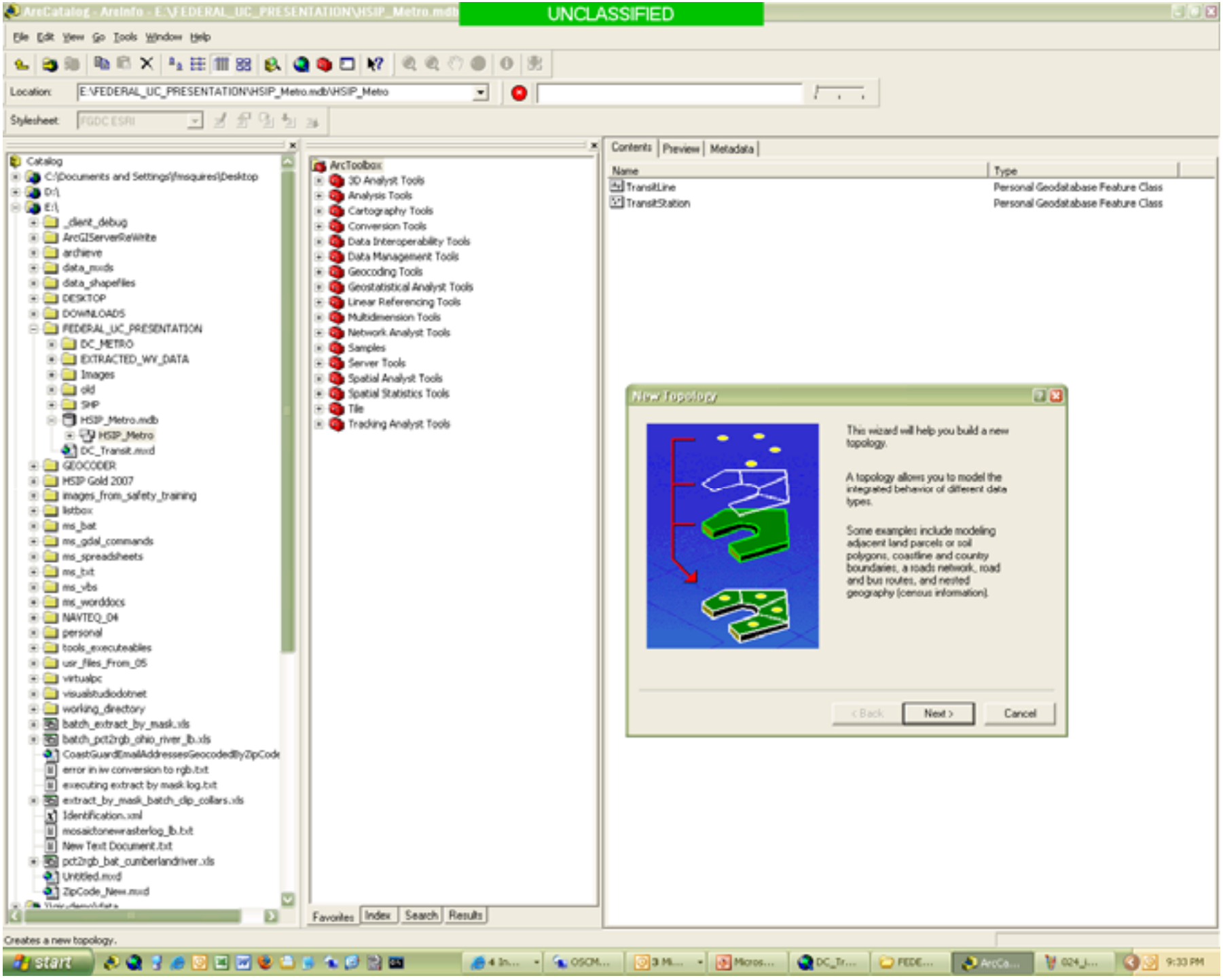
Rename F2
Refresh
Analyze...
New
Import
Export
Compress File Geodatabase...
Uncompress File Geodatabase...
Upgrade Spatial Reference...
Properties...
Feature Class...
Relationship Class...
Terrain...
Network Dataset...
Topology...
Cadastral Fabric...
Polygon Feature Class From Lines...
Geometric Network...
Creates a new topology.
start
9:32 PM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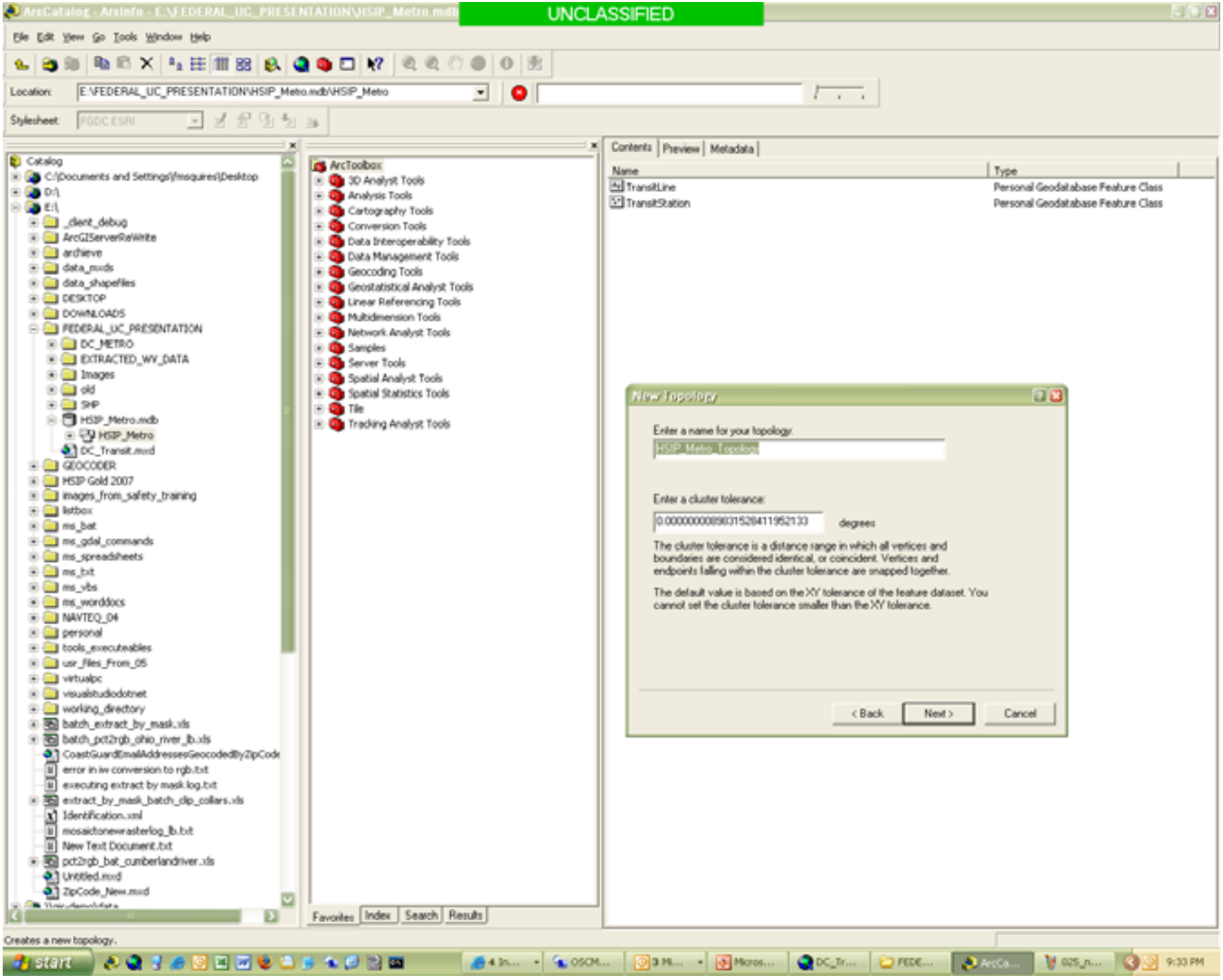
Personal Geodatabase Feature Class
TransitStation
Personal Geodatabase Feature Class
New Topology
This wizard will help you build a new topology.
A topology allows you to model the integrated behavior of different data types.
Some examples include modeling adjacent land parcels or soil polygons, coastline and country boundaries, a roads network, road and bus routes, and nested geography (census information).
< Back
Next >
Cancel
Creates a new topology.
start
9:33 PM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Name Type
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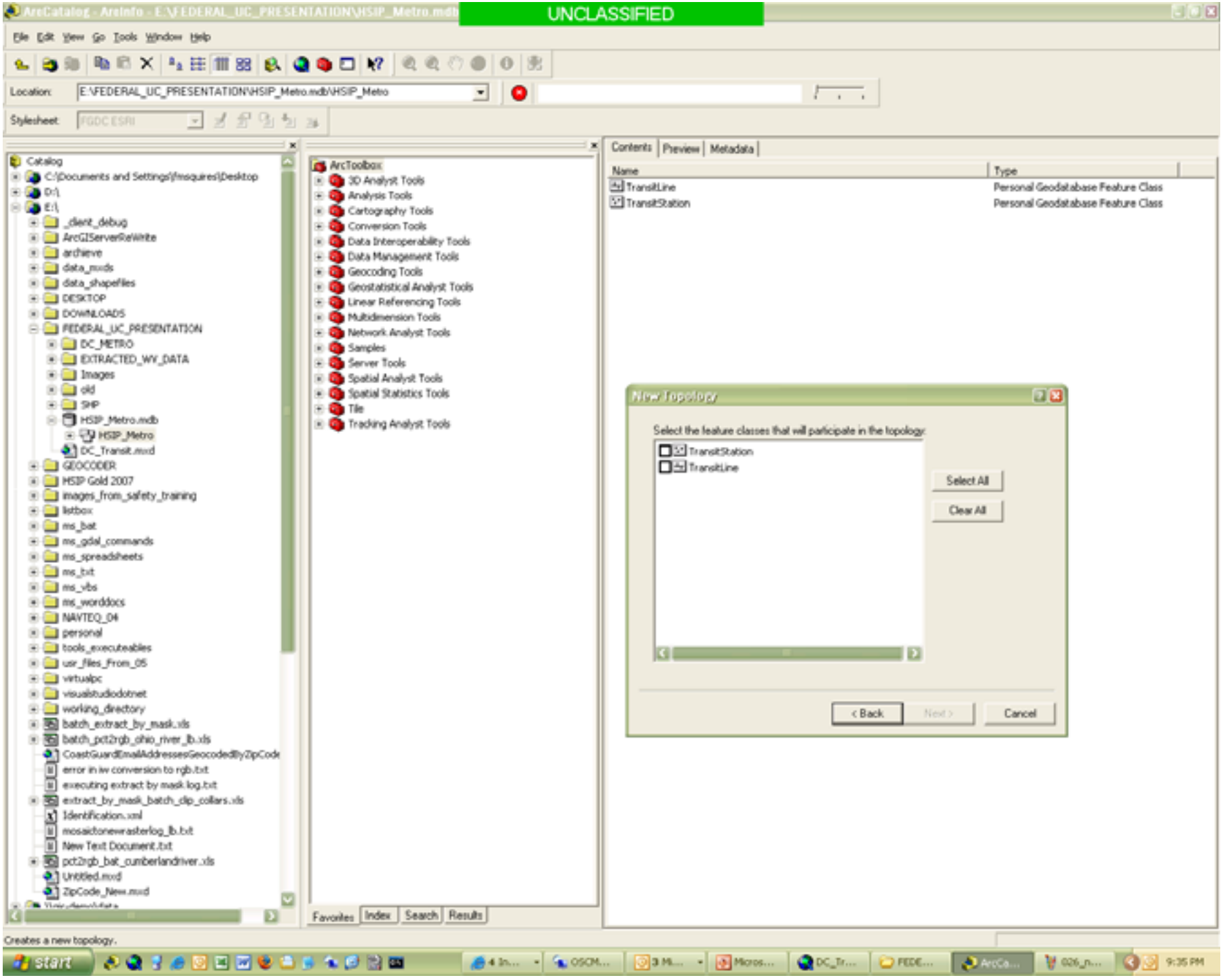
TransitStation Personal Geodatabase Feature Class
New Topology
Enter a name for your topology:
HSIP_Metro_Topology
Enter a cluster tolerance:
0.000000008903152841196213 3
degrees
The cluster tolerance is a distance range in which all vertices and boundaries are considered identical, or coincident. Vertices and endpoints falling within the cluster tolerance are snapped together.
The default value is based on the XY tolerance of the feature dataset. You cannot set the cluster tolerance smaller than the XY tolerance.
< Back
Next >
Cancel
Creates a new topology.
start
9:33 PM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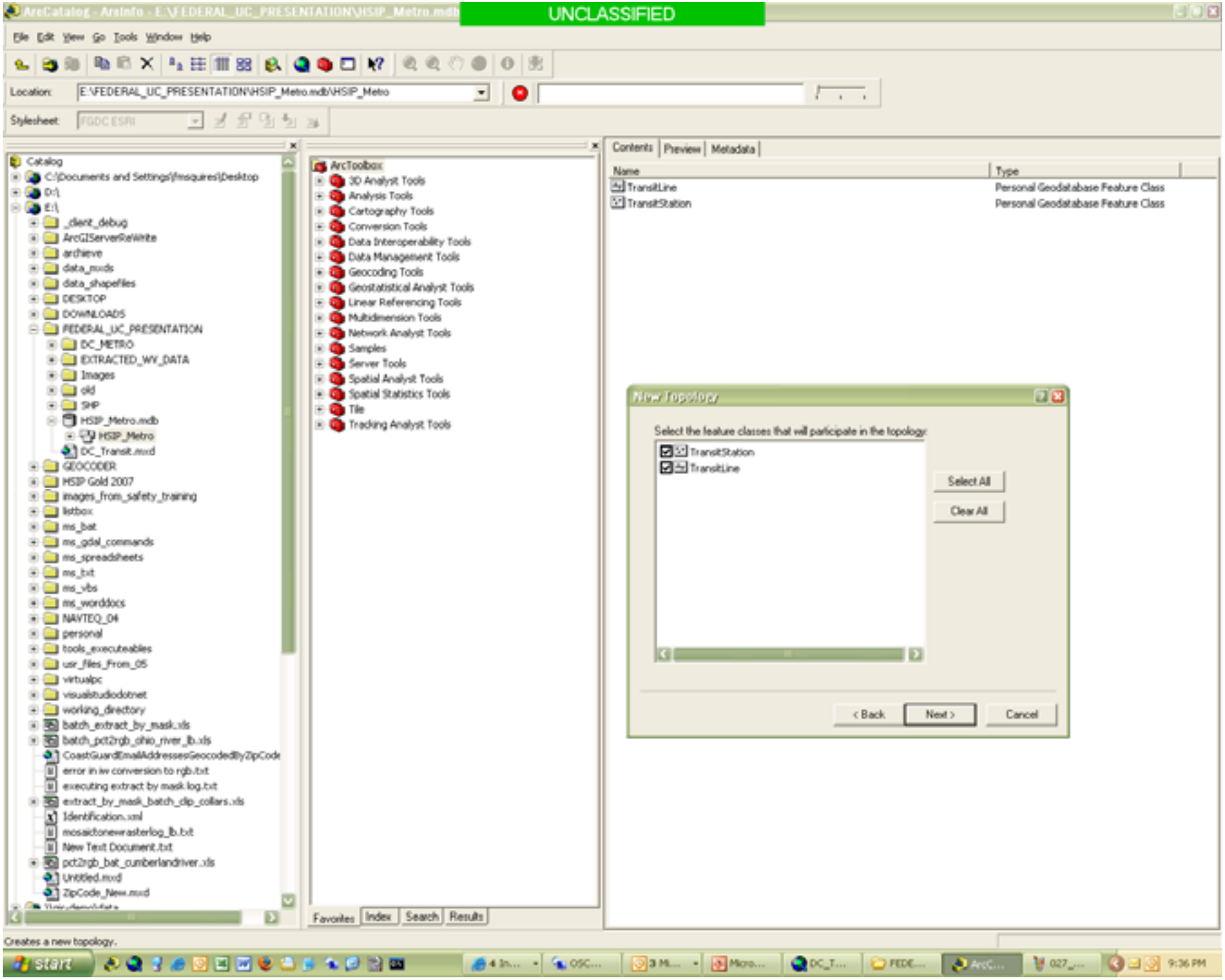
TransitStation Personal Geodatabase Feature Class
New Topology
Select the feature classes that will participate in the topology:
TransitStation
TransitLine
Select All
Clear All
< Back Next > Cancel
Creates a new topology.
start
9:35 PM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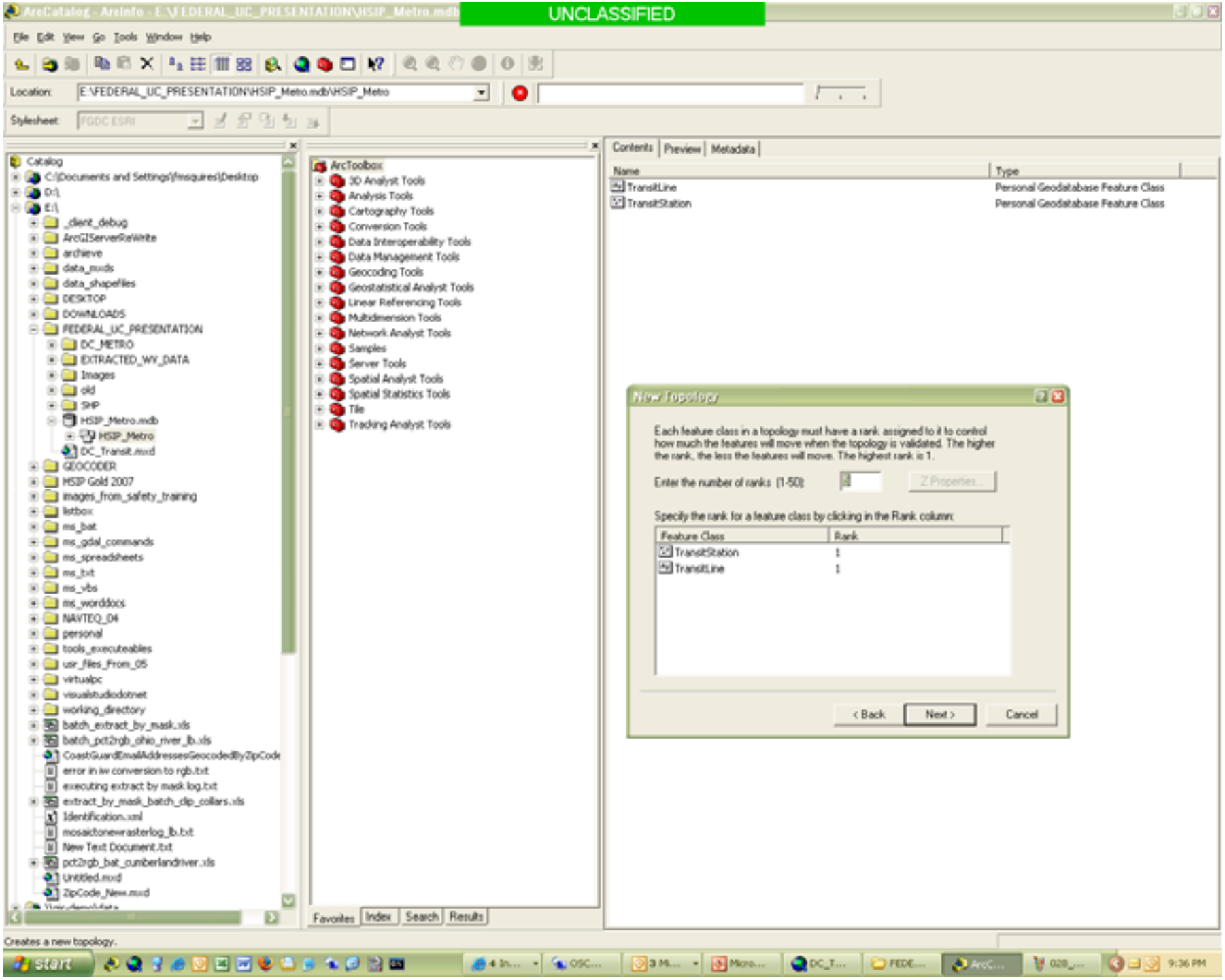
TransitStation Personal Geodatabase Feature Class
New Topology
Select the feature classes that will participate in the topology:
TransitStation
TransitLine
Select All
Clear All
< Back Next > Cancel
Creates a new topology.
start
9:36 PM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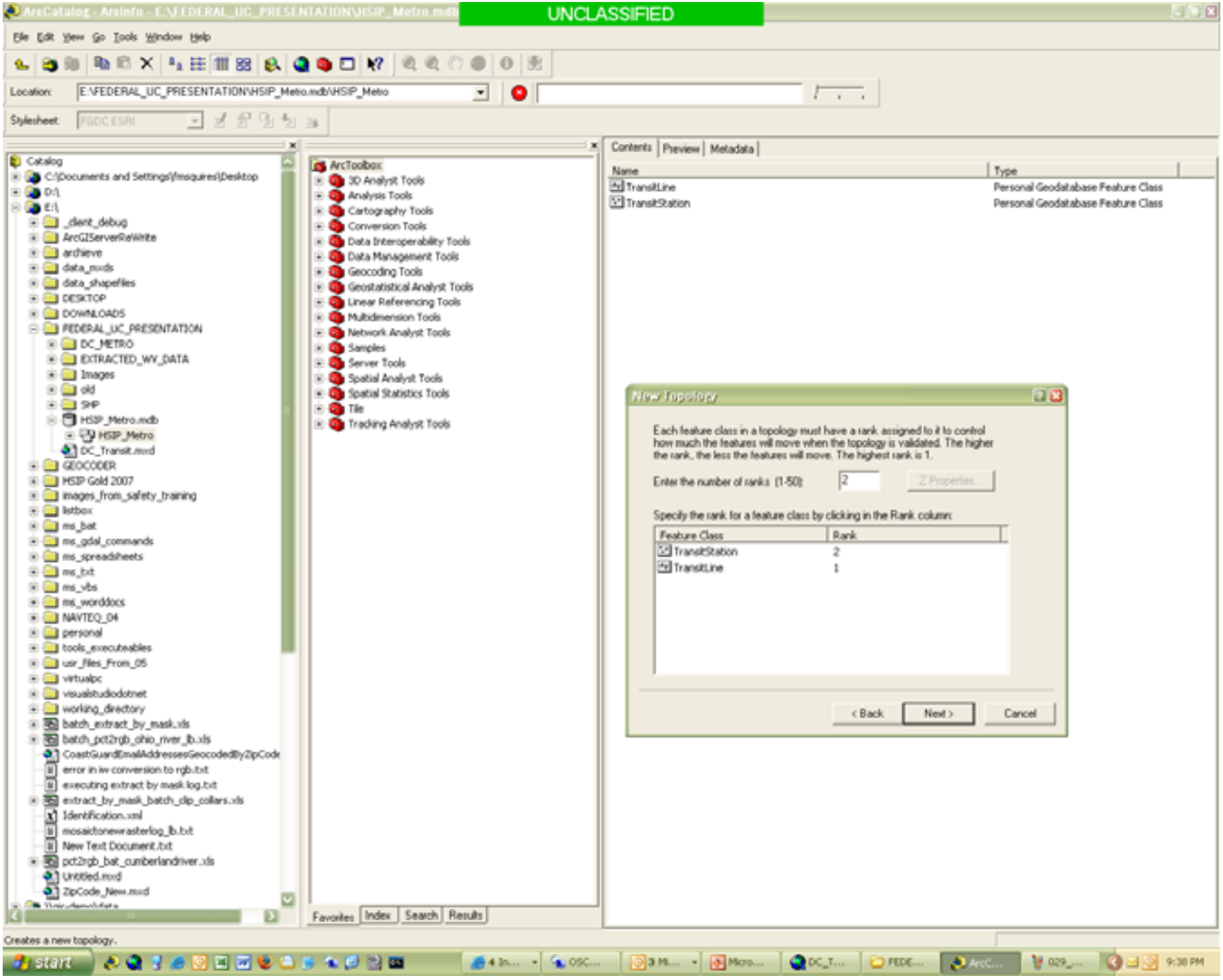
Name Type
TransitLine Personal Geodatabase Feature Class
TransitStation Personal Geodatabase Feature Class
New Topology
Each feature class in a topology must have a rank assigned to it to control how much the features will move when the topology is validated. The higher the rank, the less the features will move. The highest rank is 1.
Enter the number of ranks (1-50):
Z Properties...
Specify the rank for a feature class by clicking in the Rank column:
Feature Class Rank
TransitStation 1
TransitLine 1
< Back Next > Cancel
Creates a new topology.
start
9:36 PM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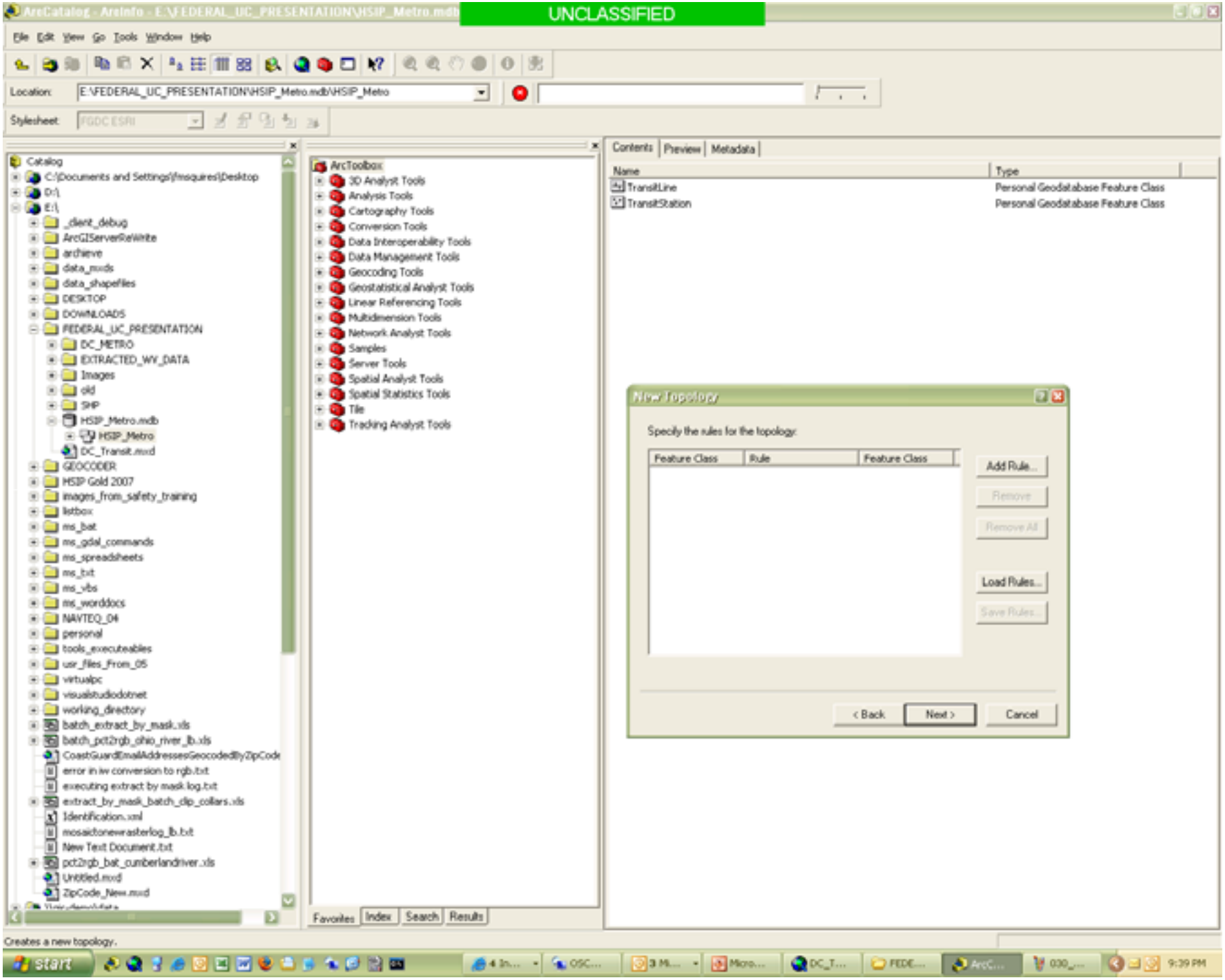
TransitLine Personal Geodatabase Feature Class
TransitStation Personal Geodatabase Feature Class
New Topology
Each feature class in a topology must have a rank assigned to it to control how much the features will move when the topology is validated. The higher the rank, the less the features will move. The highest rank is 1.
Enter the number of ranks (1-50): 2
Z Properties...
Specify the rank for a feature class by clicking in the Rank column:
Feature Class Rank
TransitStation 2
TransitLine 1
< Back Next > Cancel
Creates a new topology.
start
9:30 PM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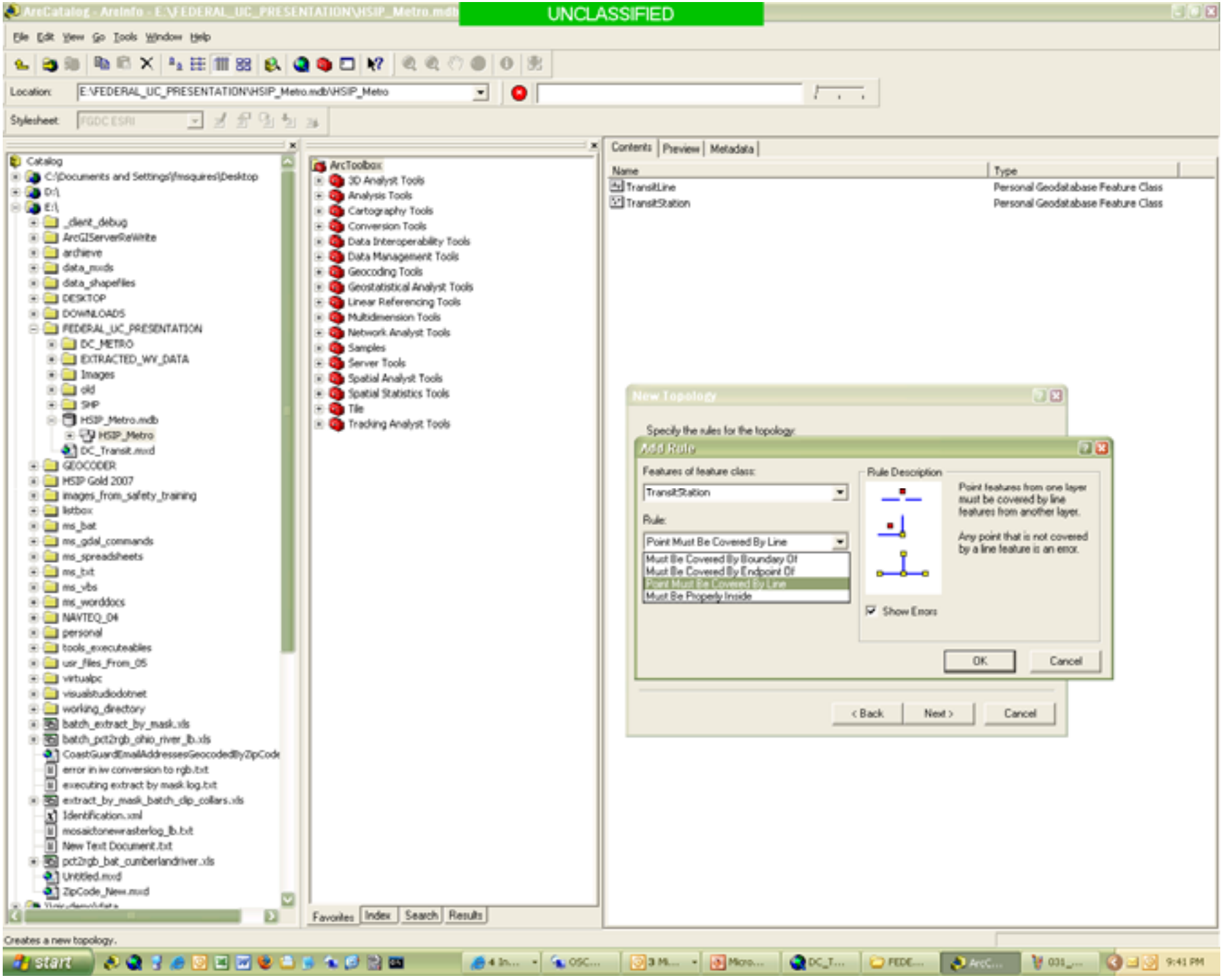
Name Type
TransitLine Personal Geodatabase Feature Class
TransitStation Personal Geodatabase Feature Class
New Topology
Specify the rules for the topology:
Feature Class Rule Feature Class
Add Rule...
Remove
Remove All
Load Rules...
Save Rules...
< Back Next > Cancel
Creates a new topology.
start
9:39 PM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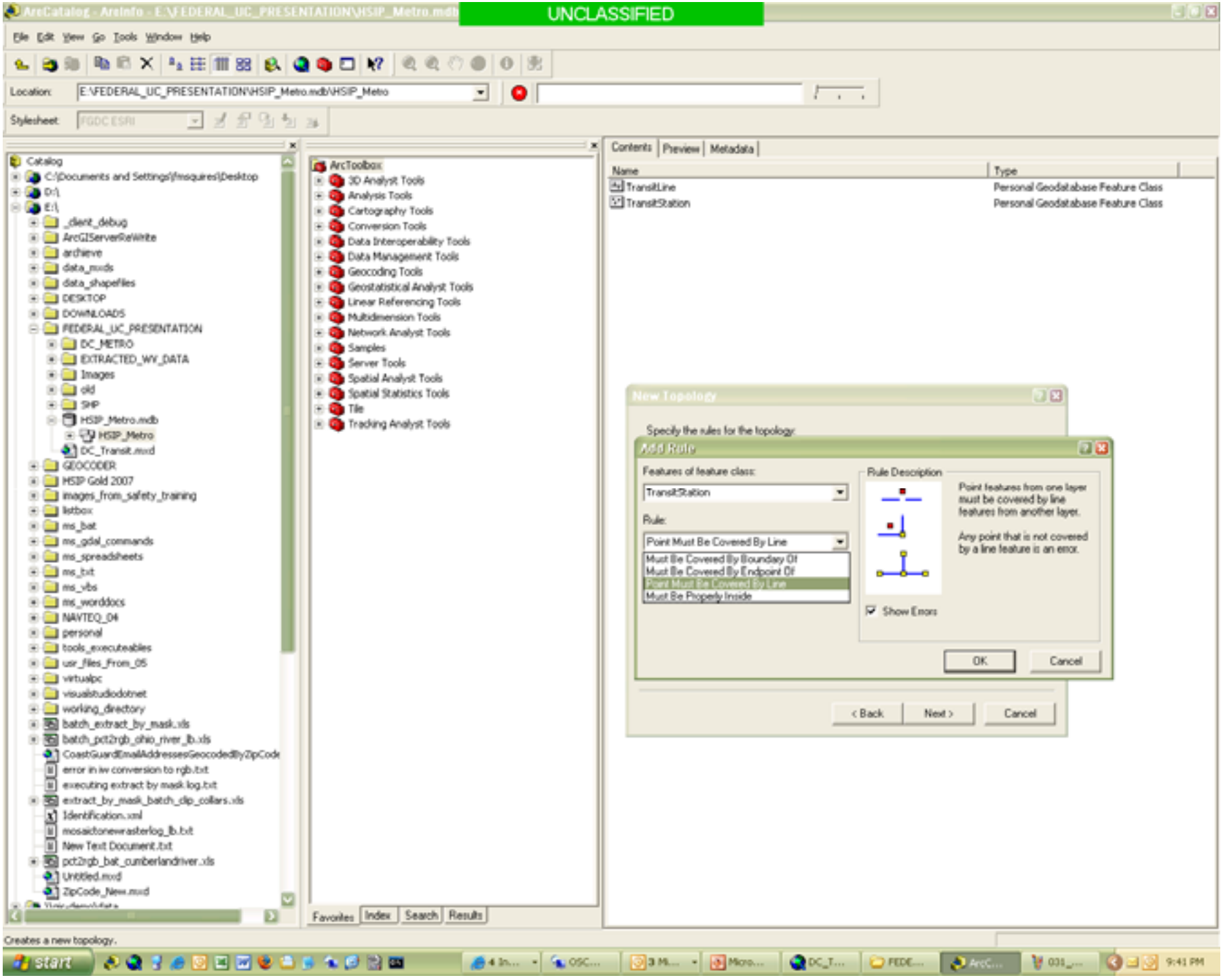
Name Type
TransitLine Personal Geodatabase Feature Class
TransitStation Personal Geodatabase Feature Class
New Topology
Specify the rules for the topology:
Add Rule
Features of feature class:
TransitStation
Rule:
Point Must Be Covered By Line
Must Be Covered By Boundary Of
Must Be Covered By Endpoint Of
Must Be Properly Inside
Rule Description
Point features from one layer must be covered by line features from another layer.
Any point that is not covered by a line feature is an error.
Show Errors
OK
Cancel
< Back
Next >
Cancel
Creates a new topology.
start
9:41 PM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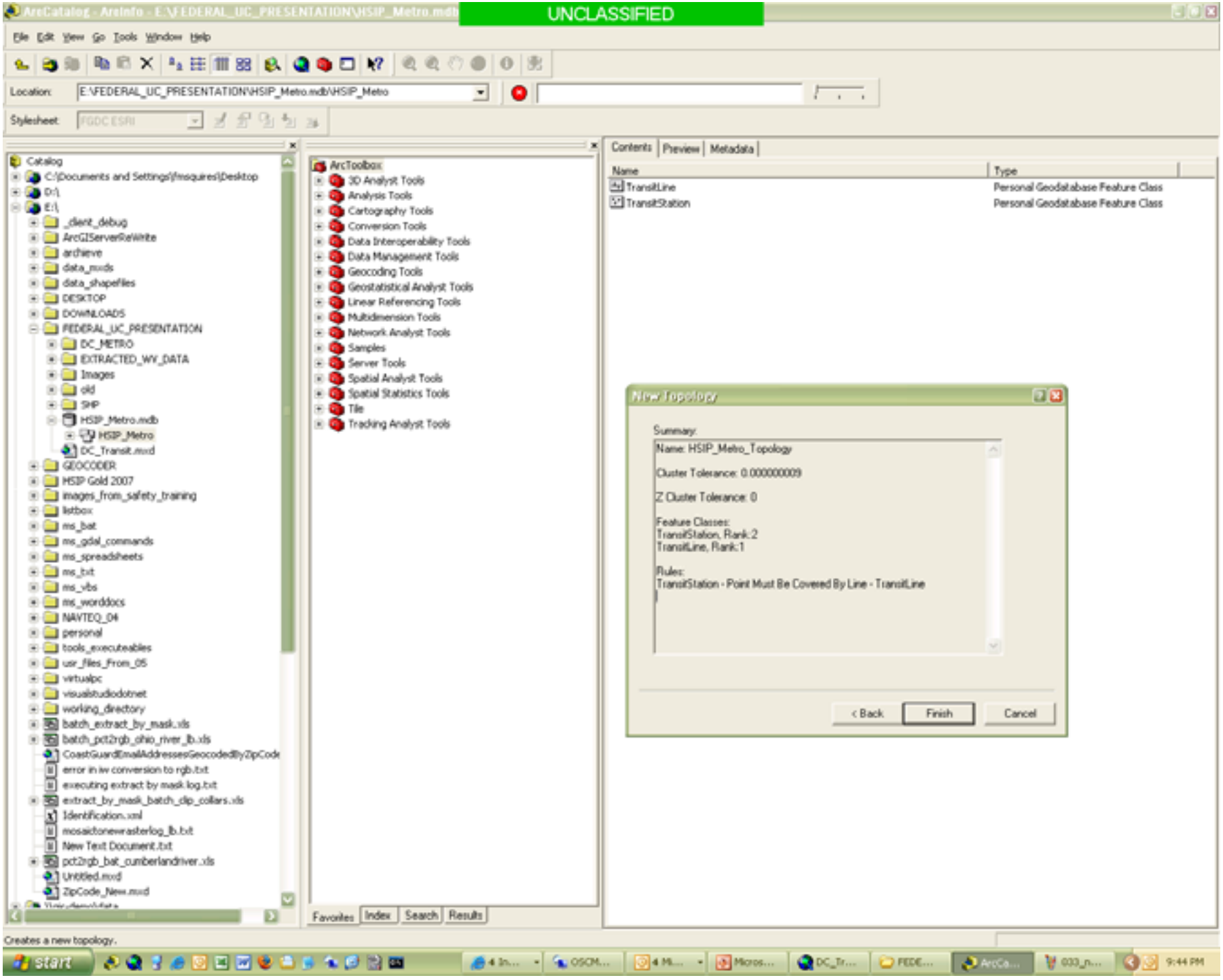
New Topology
Specify the rules for the topology:
Add Rule
Features of feature class:
TransitStation
Rule:
Point Must Be Covered By Line
Must Be Covered By Boundary Of
Must Be Covered By Endpoint Of
Must Be Properly Inside
Rule Description
Point features from one layer must be covered by line features from another layer.
Any point that is not covered by a line feature is an error.
Show Errors
OK
Cancel
< Back
Next >
Cancel
Creates a new topology.
start
9:41 PM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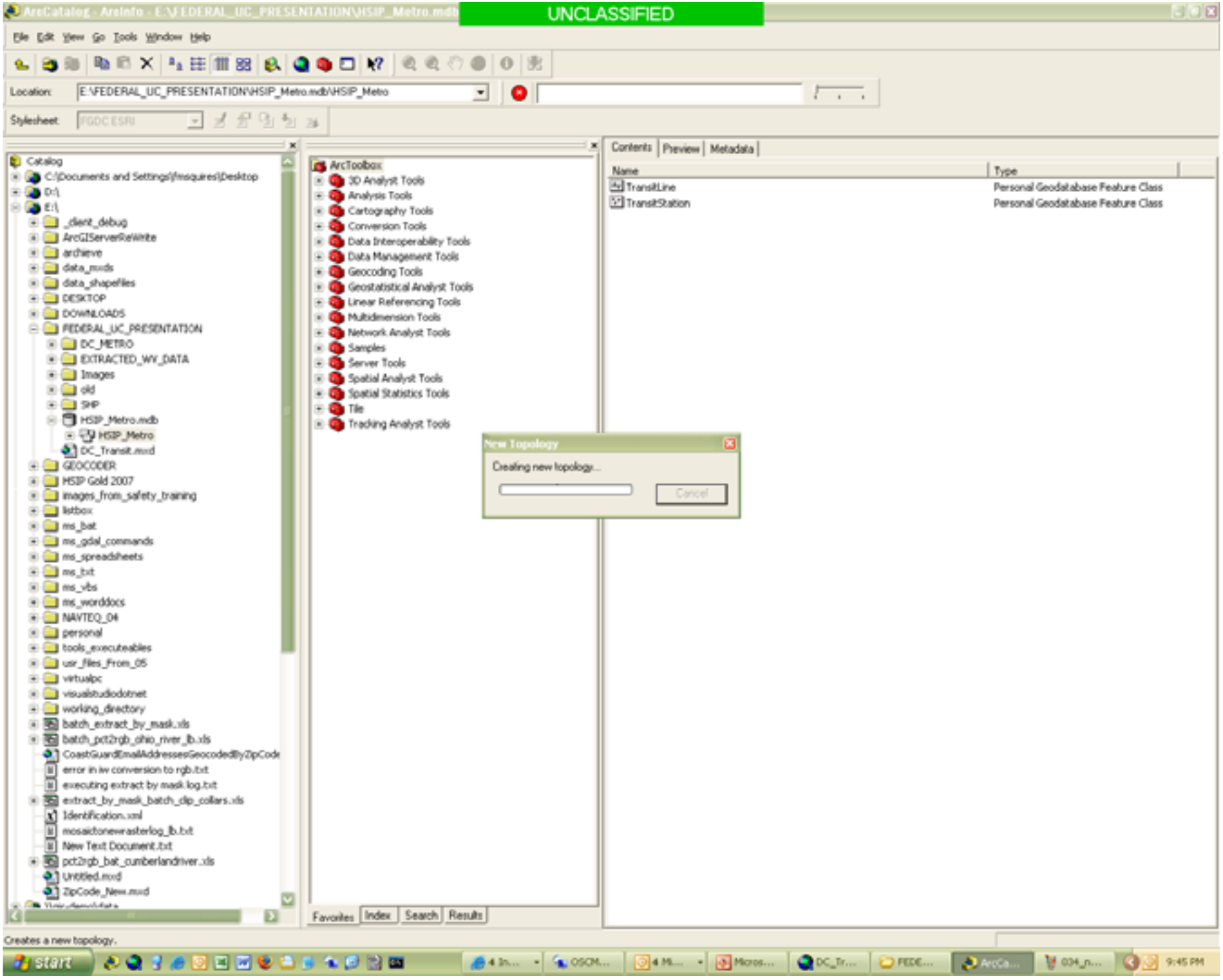
Name Type
TransitLine Personal Geodatabase Feature Class
TransitStation Personal Geodatabase Feature Class
New Topology
Summary:
Name: HSIP_Metro_Topology
Cluster Tolerance: 0.000000009
Z Cluster Tolerance: 0
Feature Classes:
TransitStation, Rank:2
TransitLine, Rank:1
Rules:
TransitStation - Point Must Be Covered By Line - TransitLine
< Back Finish Cancel
Creates a new topology.
start
9:44 PM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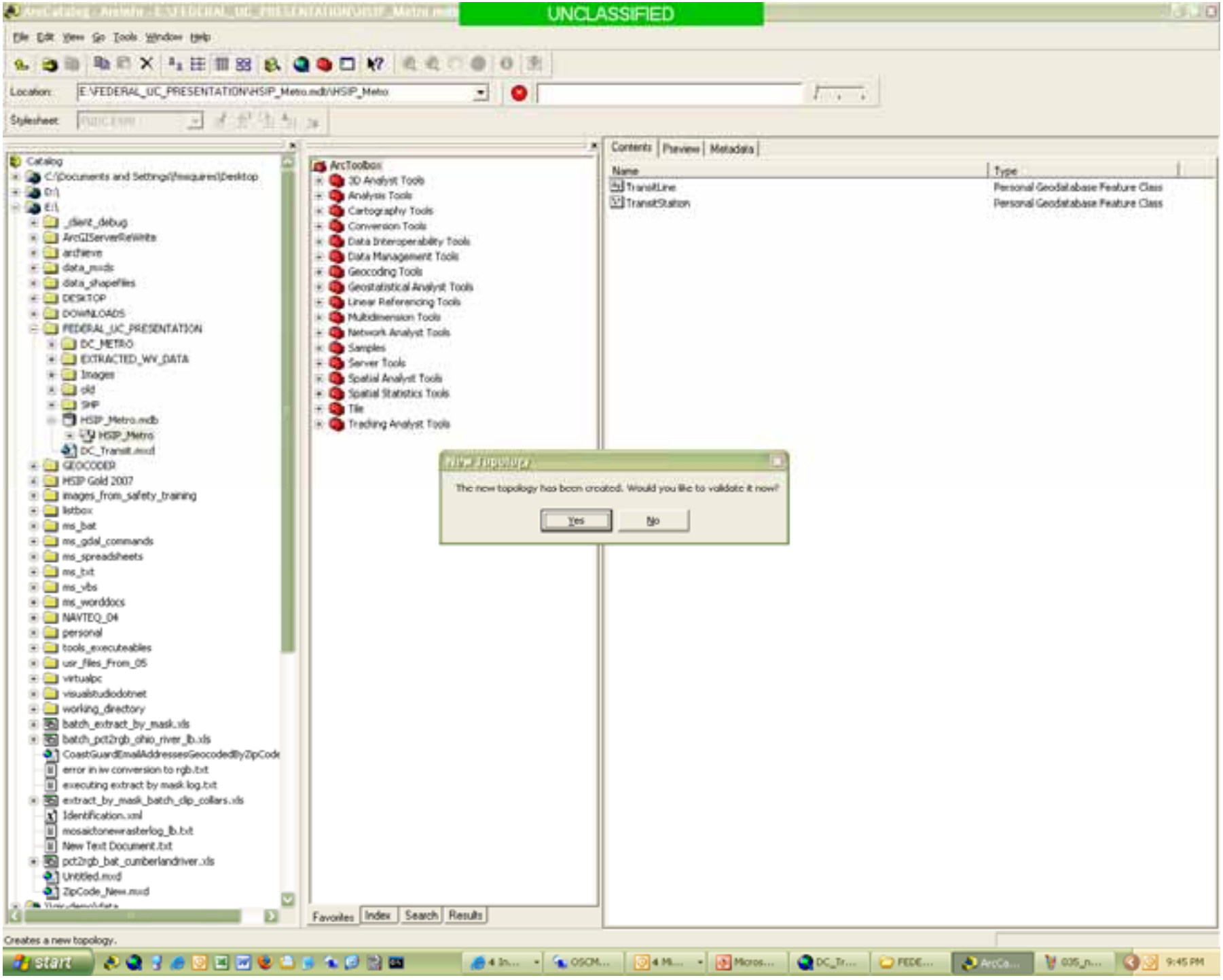
New Topology
Creating new topology...
Cancel
Creates a new topology.
start
9:45 PM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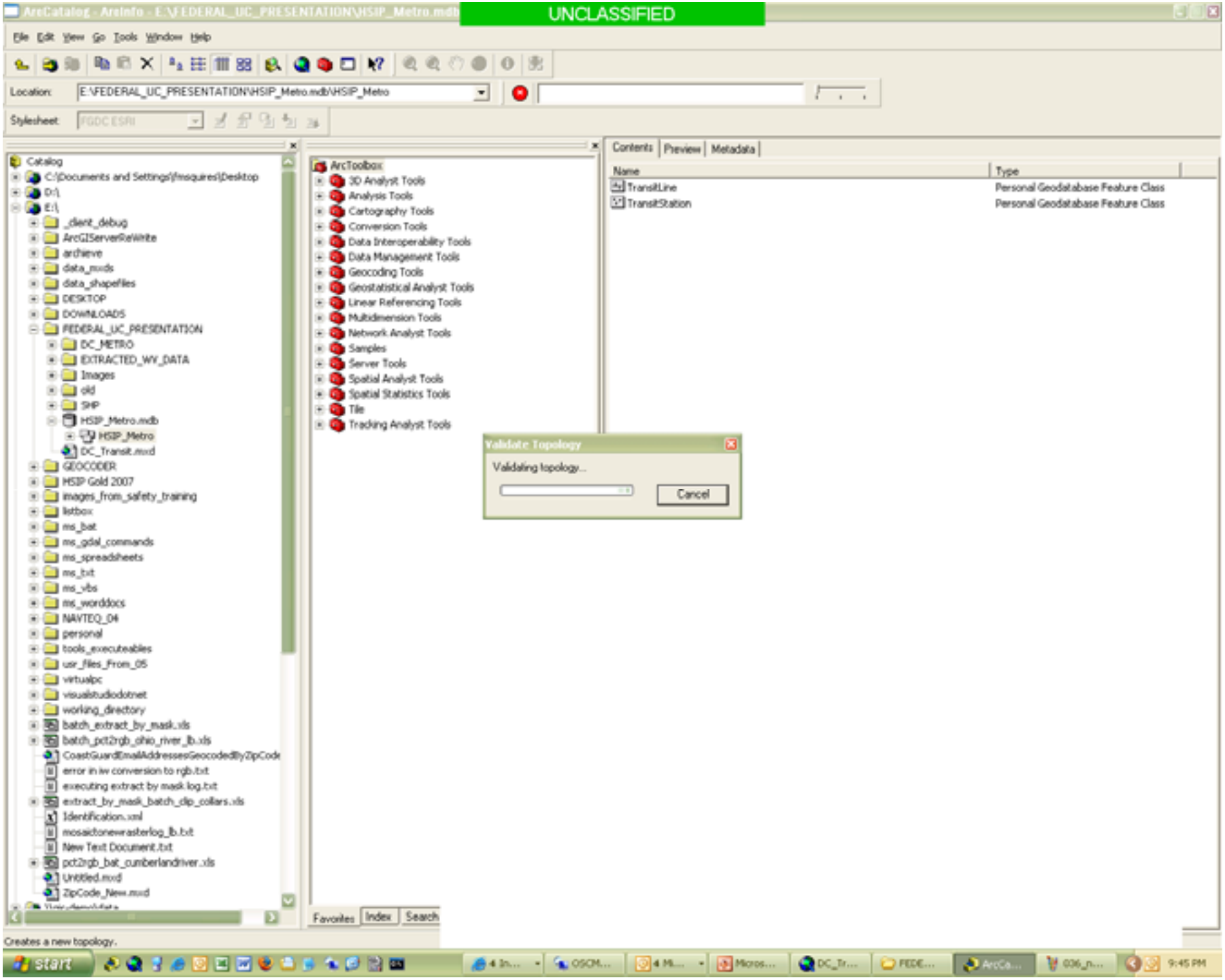
Personal Geodatabase Feature Class
New Topology
The new topology has been created. Would you like to validate it now?
Yes
No
Creates a new topology.
start
9:45 PM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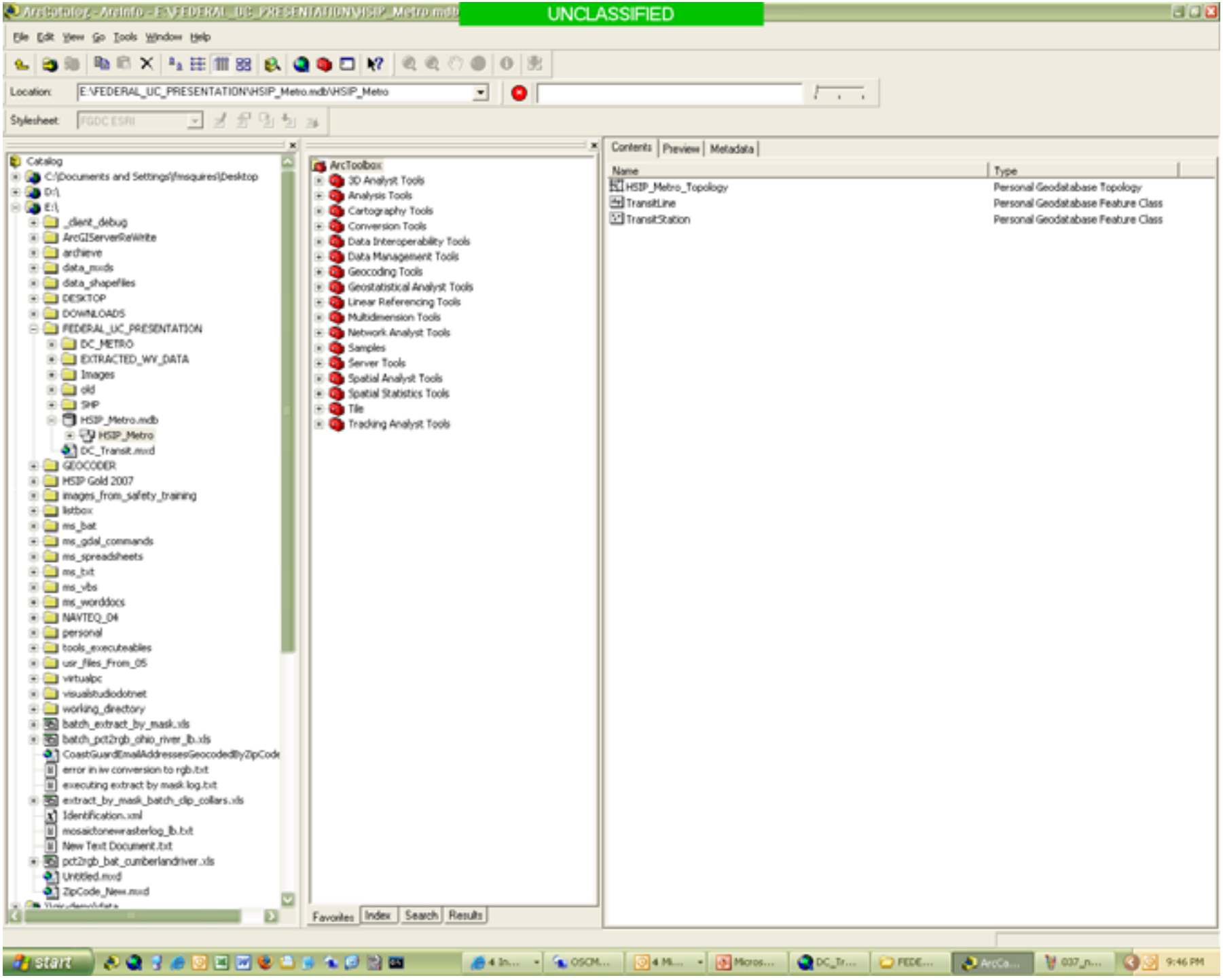
Validate Topology
Validating topology...
Cancel
Creates a new topology.
start
9:45 PM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start
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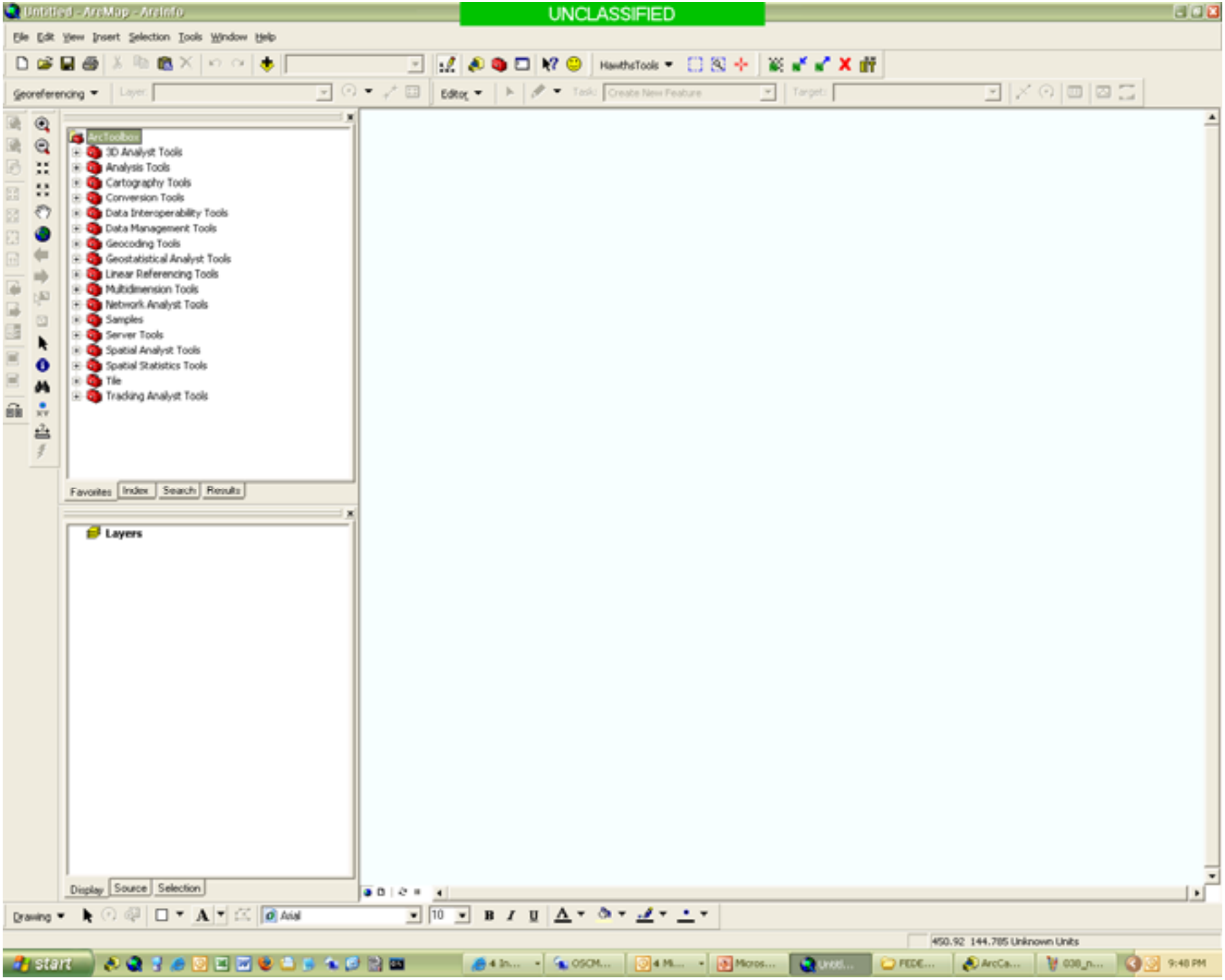
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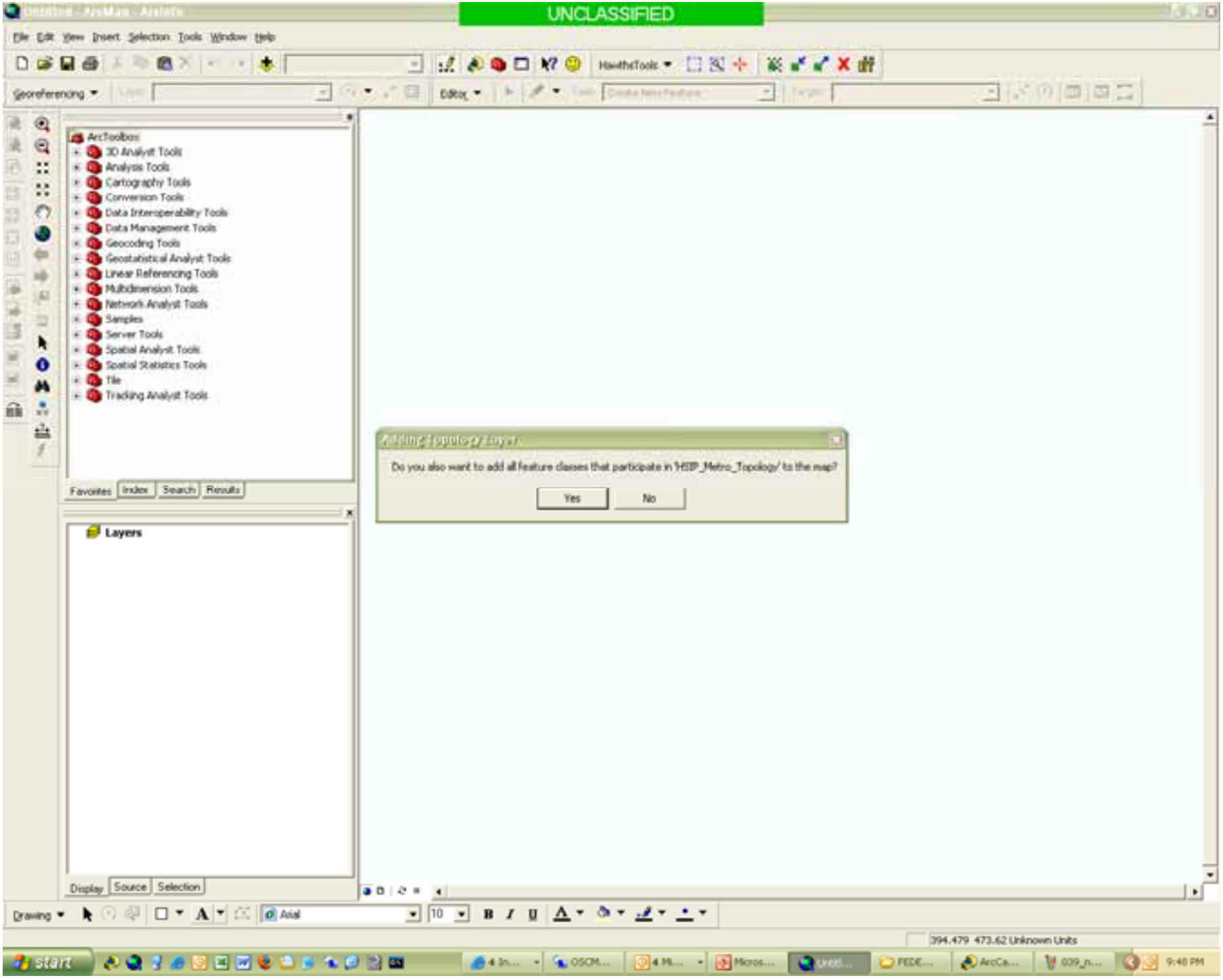
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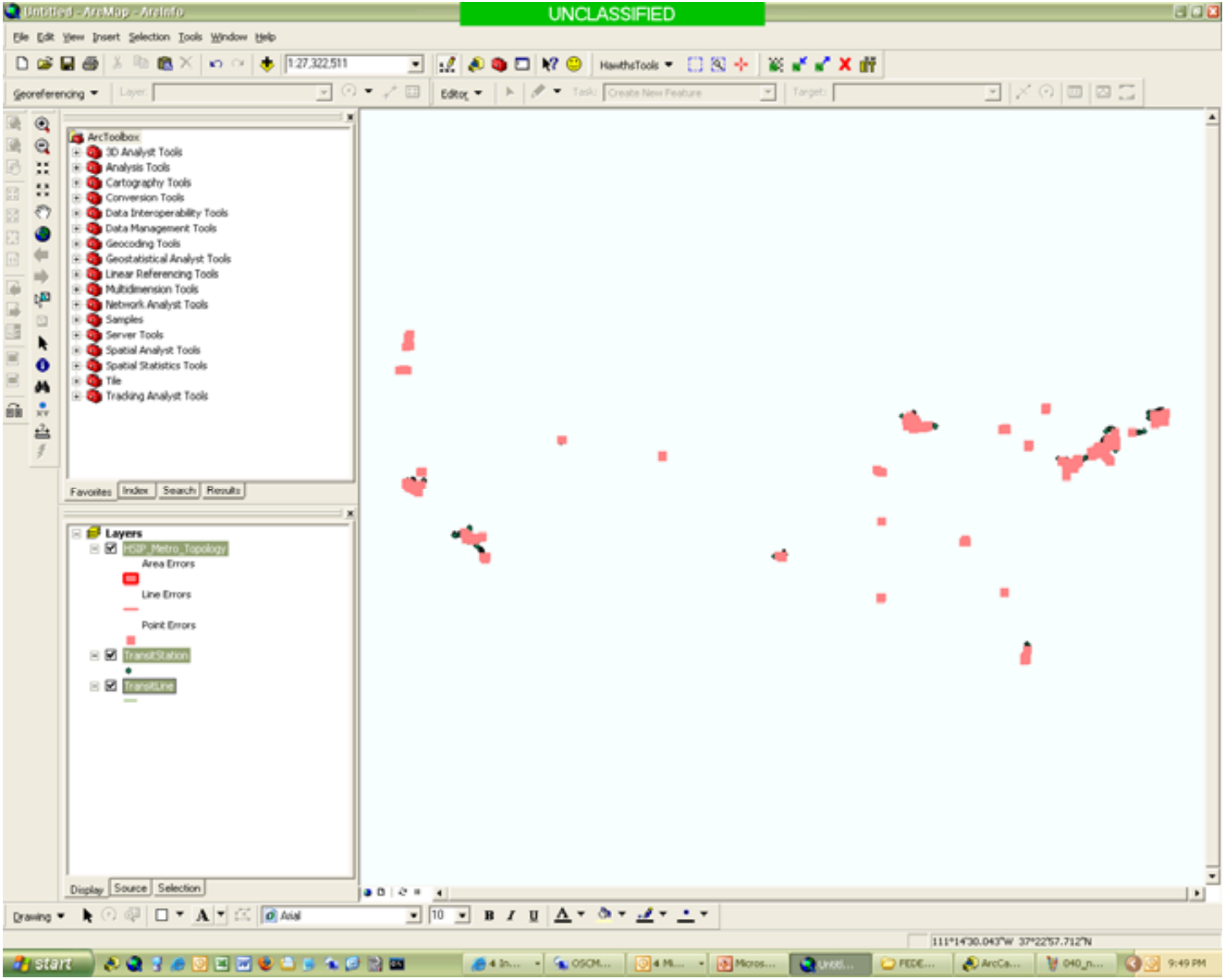
Adding Topology Layers
Do you also want to add all feature classes that participate in 'HSIP_Metro_Topology' to the map?
Yes
No
Drawing
Arial
10
394.479 473.62 Unknown Units
start
9:40 PM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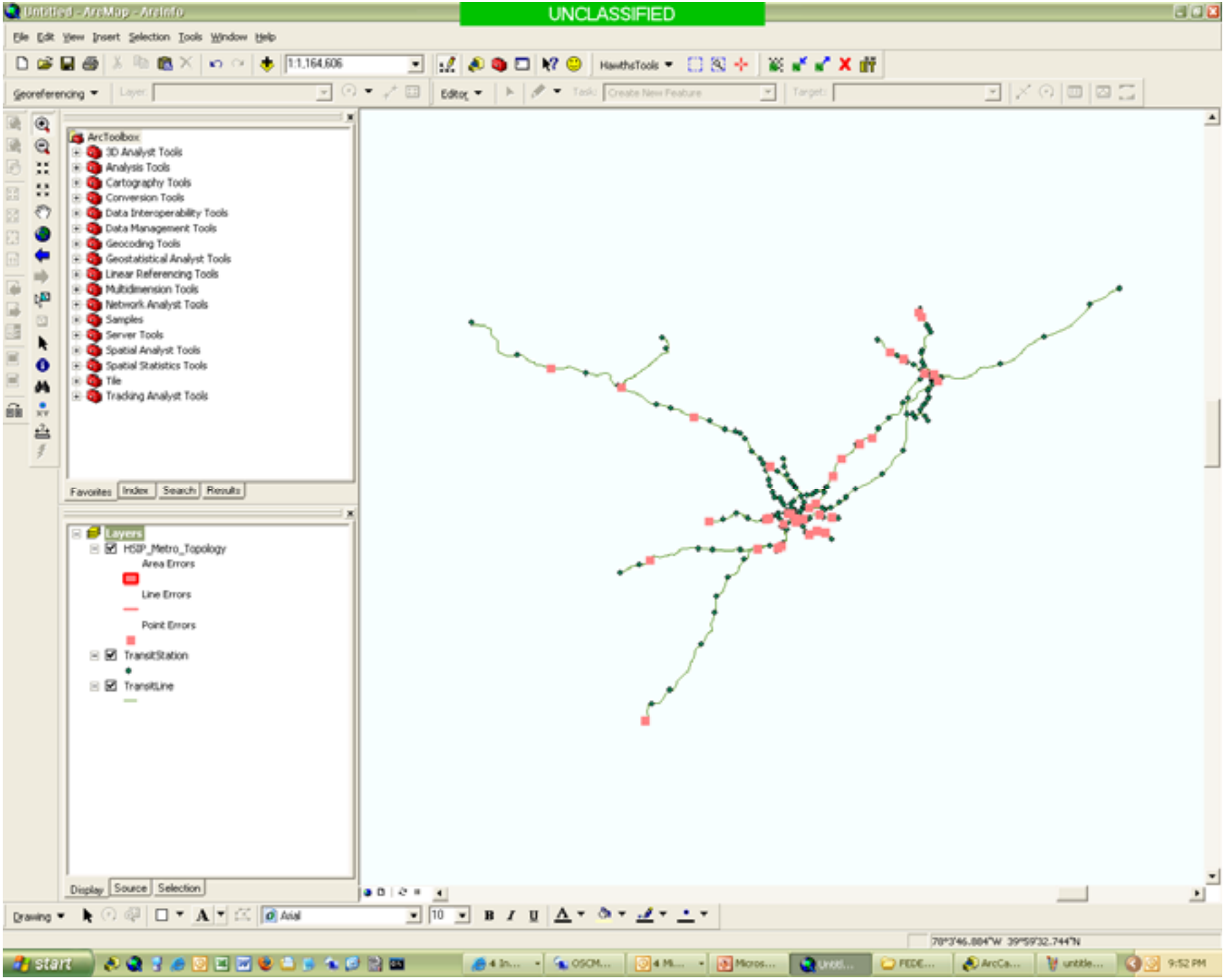
111°14'30.043"W 37°22'57.712"N
start
9:49 PM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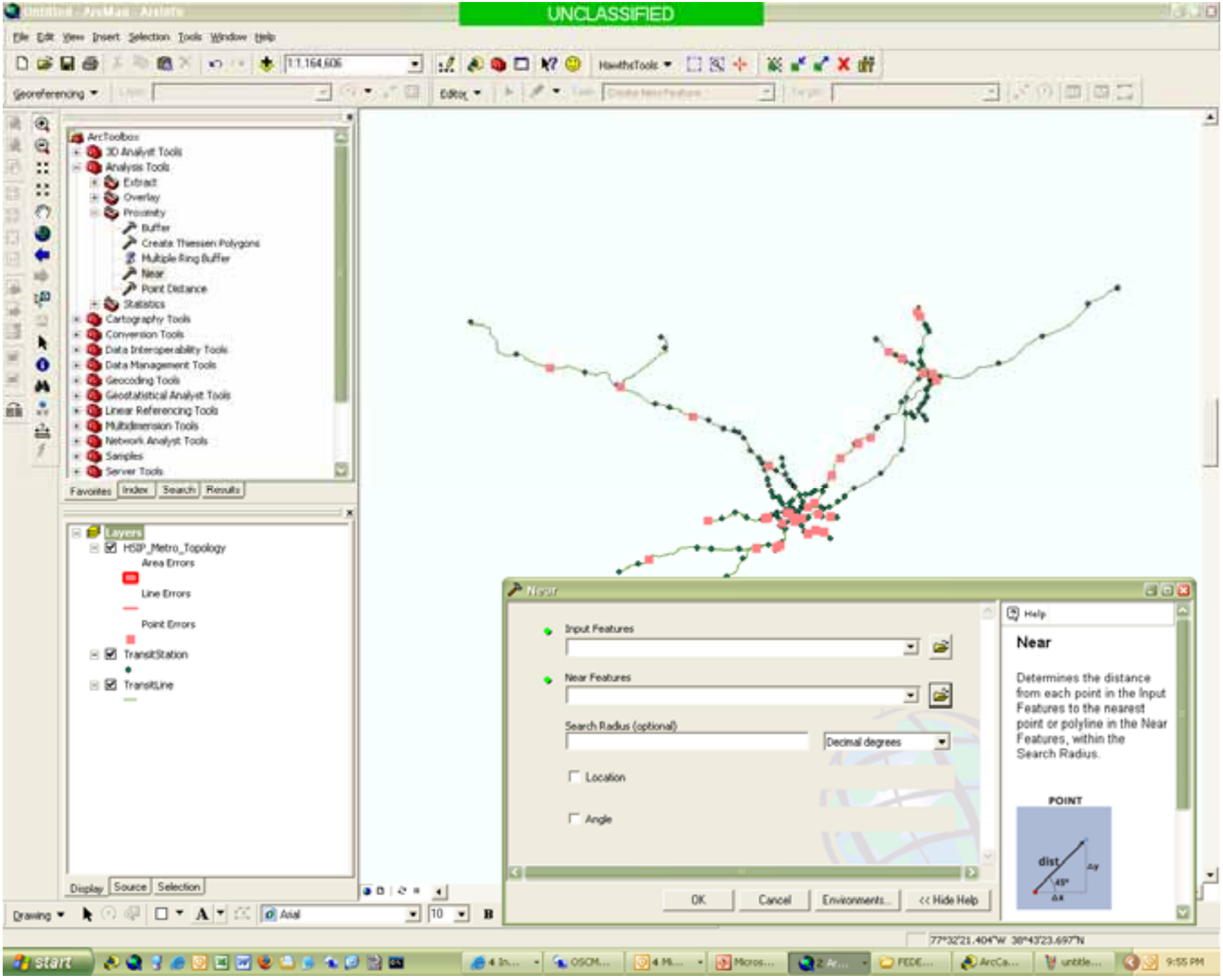
start
9:52 PM


UNCLASSIFIED
File Edit View Insert Selection Tools Window Help
Georeferencing
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3D Analyst Tools
Analysis Tools
Extract
Overlay
Proximity
Buffer
Create Thiessen Polygons
Multiple Ring Buffer
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Line Errors
Point Errors
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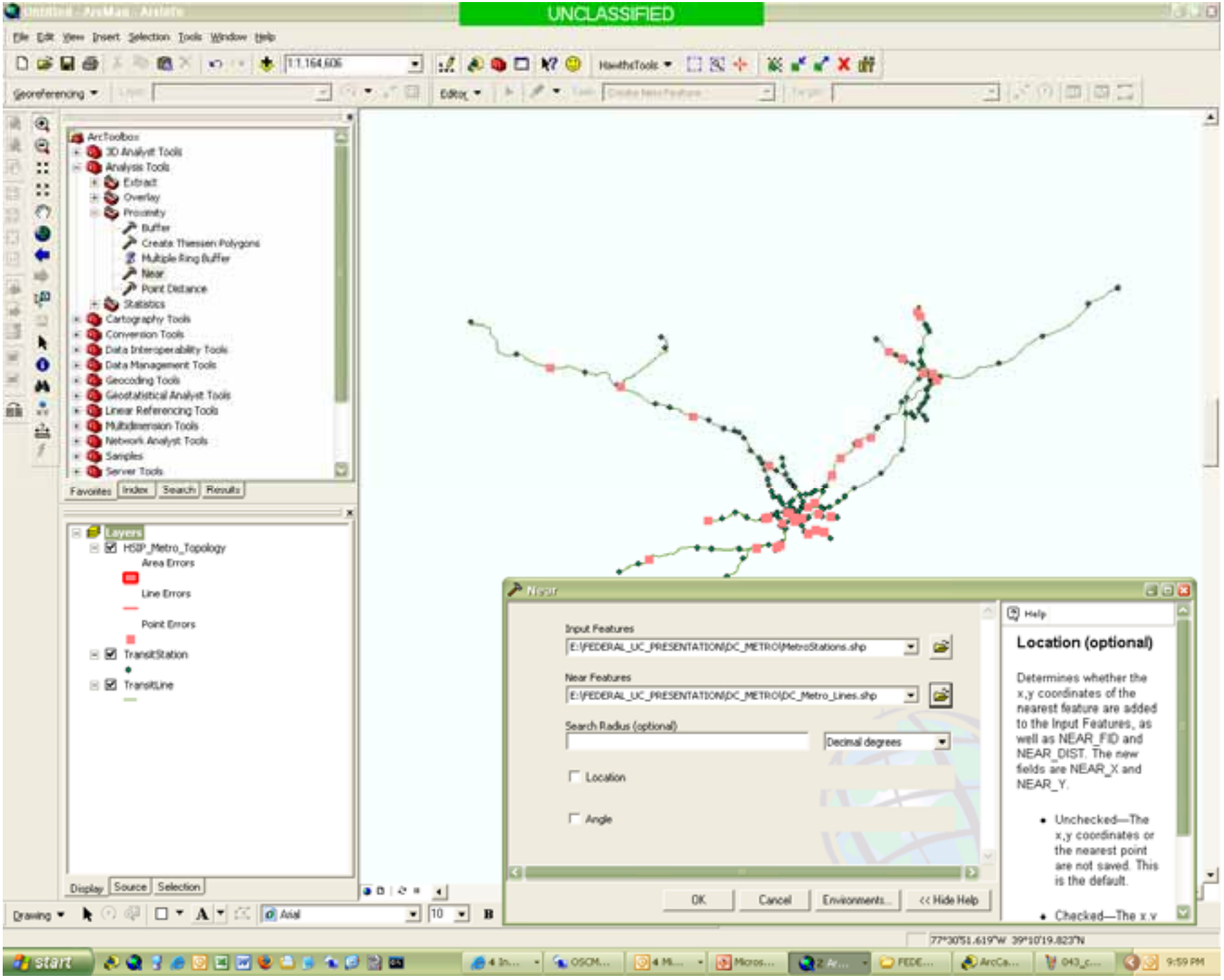
TransitLine
Display
Source
Selection
Drawing
Arial
Near
Input Features
Near Features
Search Radius (optional)
Decimal degrees
Location
Angle
OK
Cancel
Environments...
<< Hide Help
Help
Near
Determines the distance from each point in the Input Features to the nearest point or polyline in the Near Features, within the Search Radius.
POINT
dist
Δy
Δx
45°
77°32'21.404"W 38°43'23.697"N
start
9:55 PM


UNCLASSIFIED
File Edit View Insert Selection Tools Window Help
Georeferencing
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Create Thiessen Polygons
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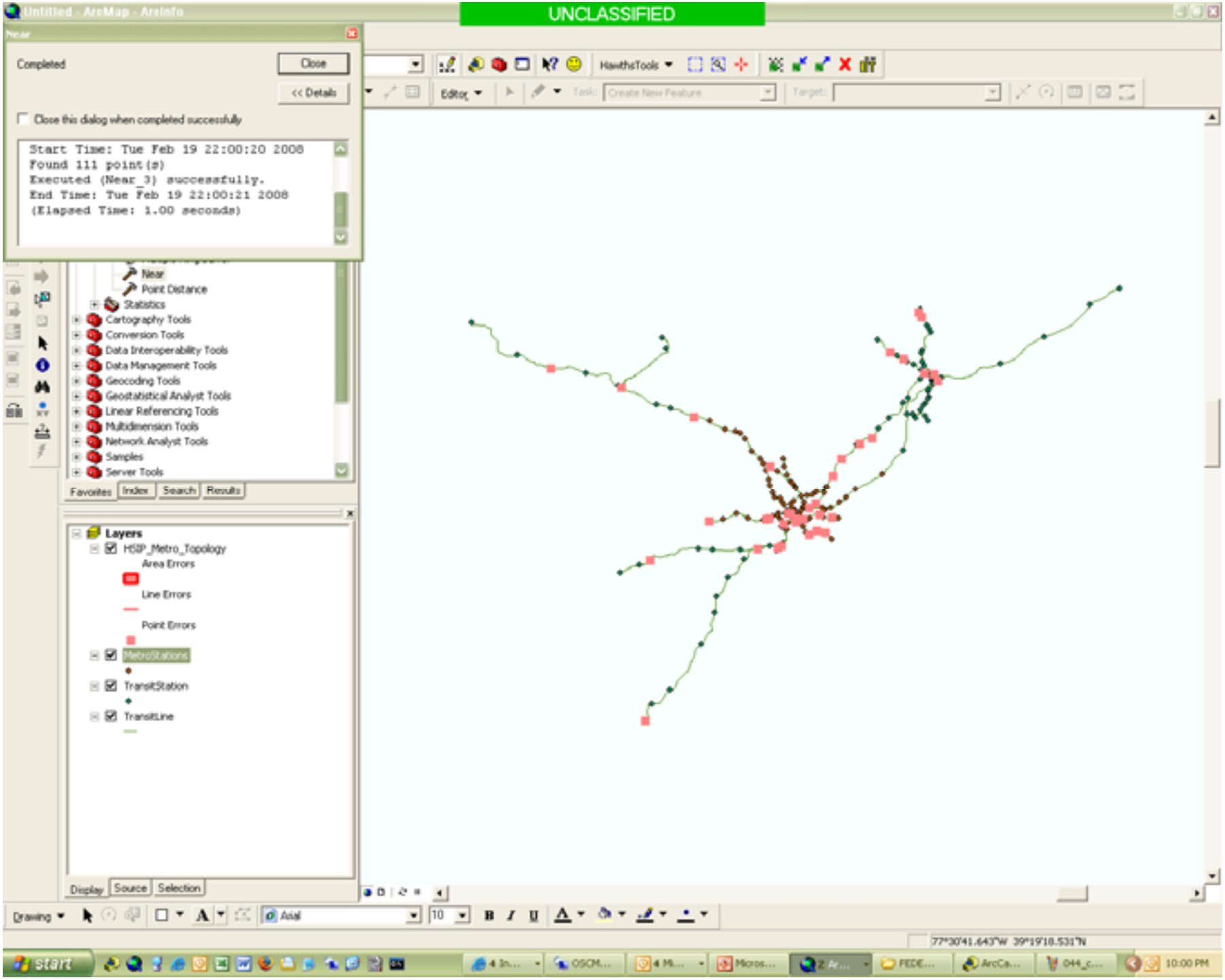
Selection
Drawing
Arial
Near
Input Features
E:\FEDERAL_UC_PRESENTATION\DC_METRO\MetroStations.shp
Near Features
E:\FEDERAL_UC_PRESENTATION\DC_METRO\DC_Metro_Lines.shp
Search Radius (optional)
Decimal degrees
Location
Angle
OK
Cancel
Environments...
<< Hide Help
Help
Location (optional)
Determines whether the x,y coordinates of the nearest feature are added to the Input Features, as well as NEAR_FID and NEAR_DIST. The new fields are NEAR_X and NEAR_Y.
Unchecked—The x,y coordinates or the nearest point are not saved. This is the default.
Checked—The x,y
77°30'51.619"W 39°10'19.823"N
start
9:59 PM


Untitled - ArcMap - ArcInfo
UNCLASSIFIED
Near
Completed
Close
<< Details
Close this dialog when completed successfully
Start Time: Tue Feb 19 22:00:20 2008
Found 111 point(s)
Executed (Near_3) successfully.
End Time: Tue Feb 19 22:00:21 2008
(Elapsed Time: 1.00 seconds)
Near
Point Distance
Statistics
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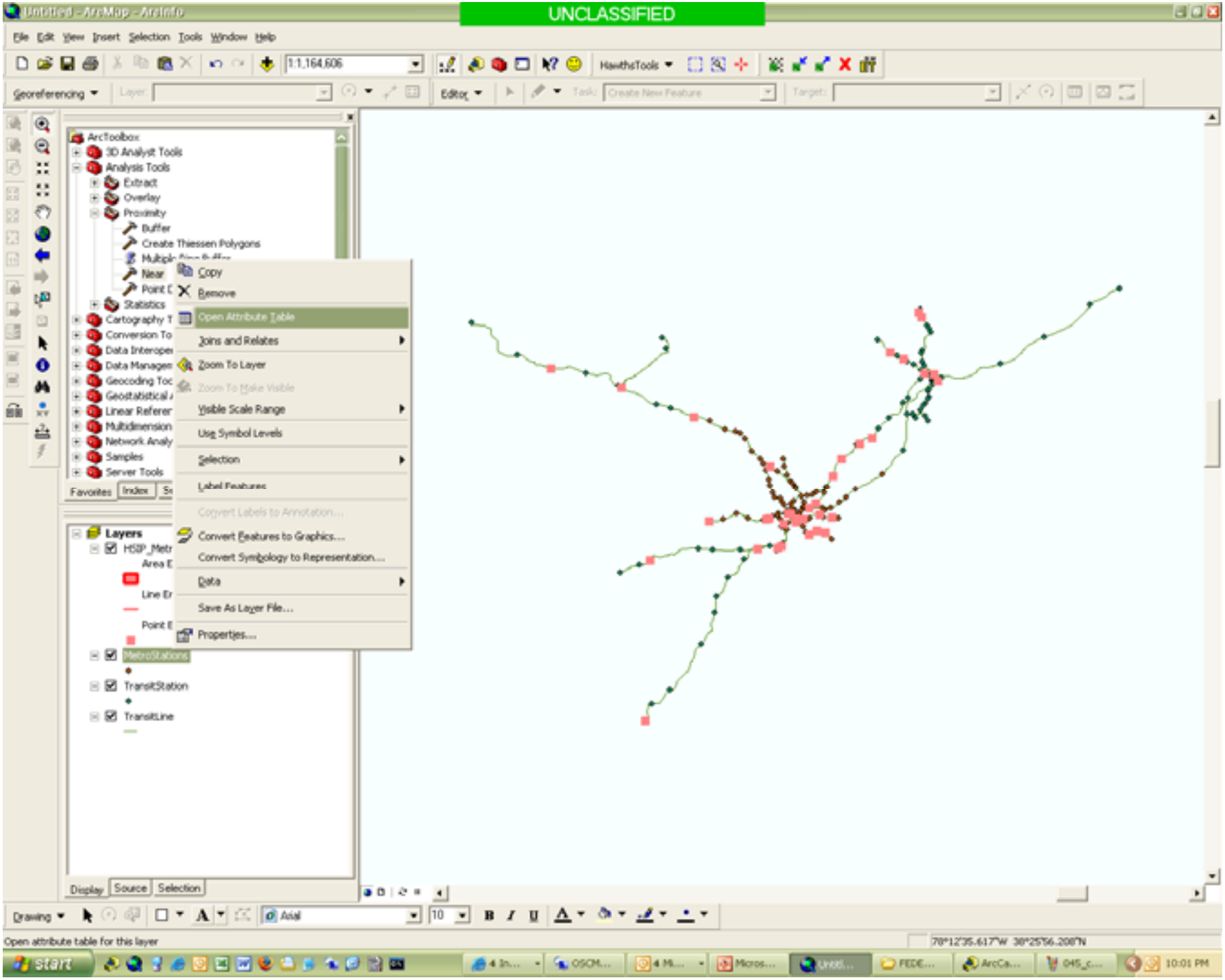
Point Errors
MetroStations
TransitStation
TransitLine
Display
Source
Selection
Drawing
Arial
10
start
10:00 PM


UNCLASSIFIED
Untitled - ArcMap - ArcInfo
File Edit View Insert Selection Tools Window Help
1:1,164,606
Georeferencing
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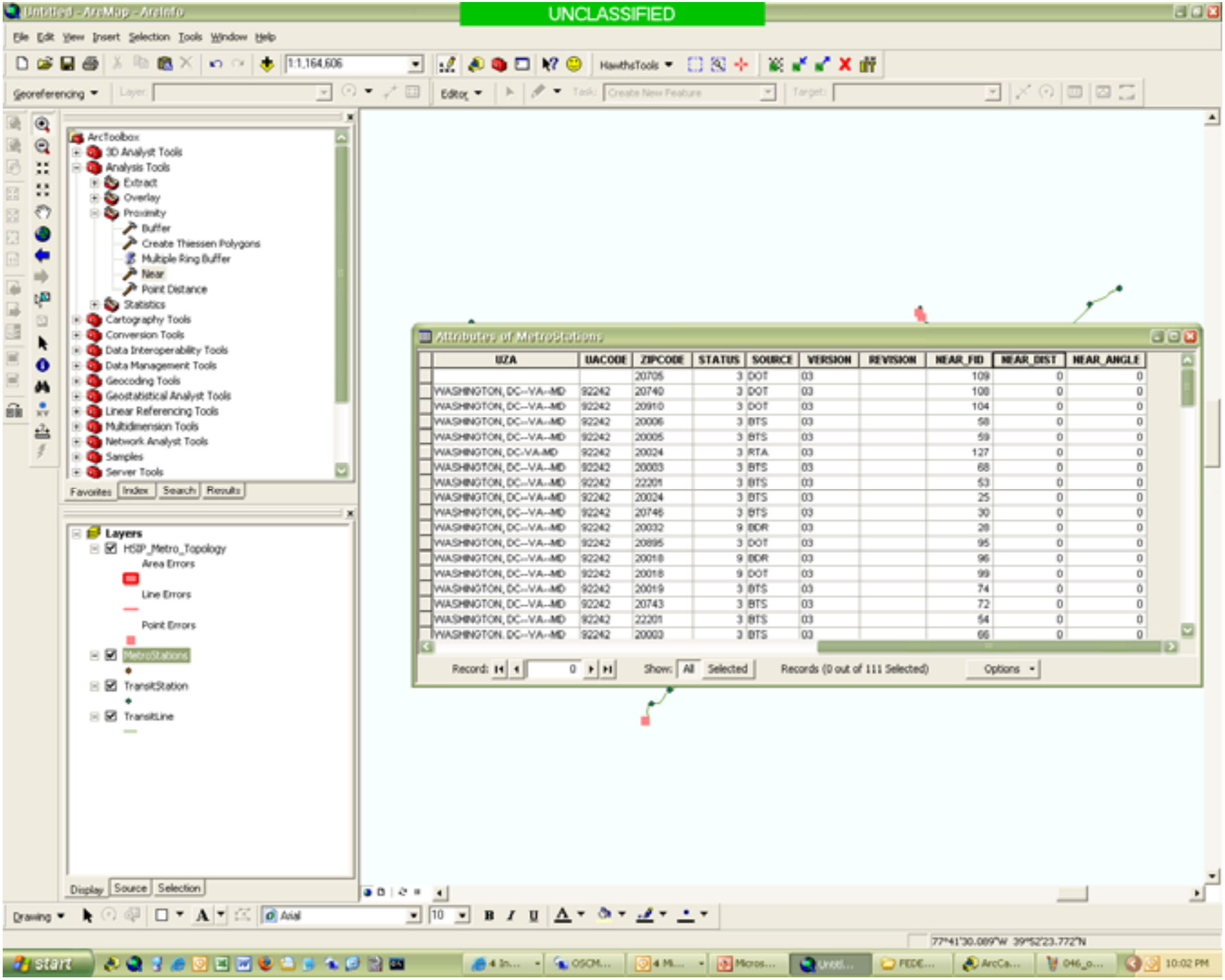
ArcToolbox
3D Analyst Tools
Analysis Tools
Extract
Overlay
Proximity
Buffer
Create Thiessen Polygons
Statistics
Favorites
Index
Copy
Remove
Open Attribute Table
Joins and Relates
Zoom To Layer
Zoom To Make Visible
Visible Scale Range
Use Symbol Levels
Selection
Label Features
Convert Labels to Annotation...
Convert Features to Graphics...
Convert Symbology to Representation...
Data
Save As Layer File...
Properties...
Layers
MetroStations
TransitStation
TransitLine
Display
Source
Selection
Drawing
Arial
Open attribute table for this layer
start
10:01 PM


UNCLASSIFIED
Untitled - ArcMap - ArcInfo
File Edit View Insert Selection Tools Window Help
1:1,164,606
HawthsTools
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ArcToolbox
3D Analyst Tools
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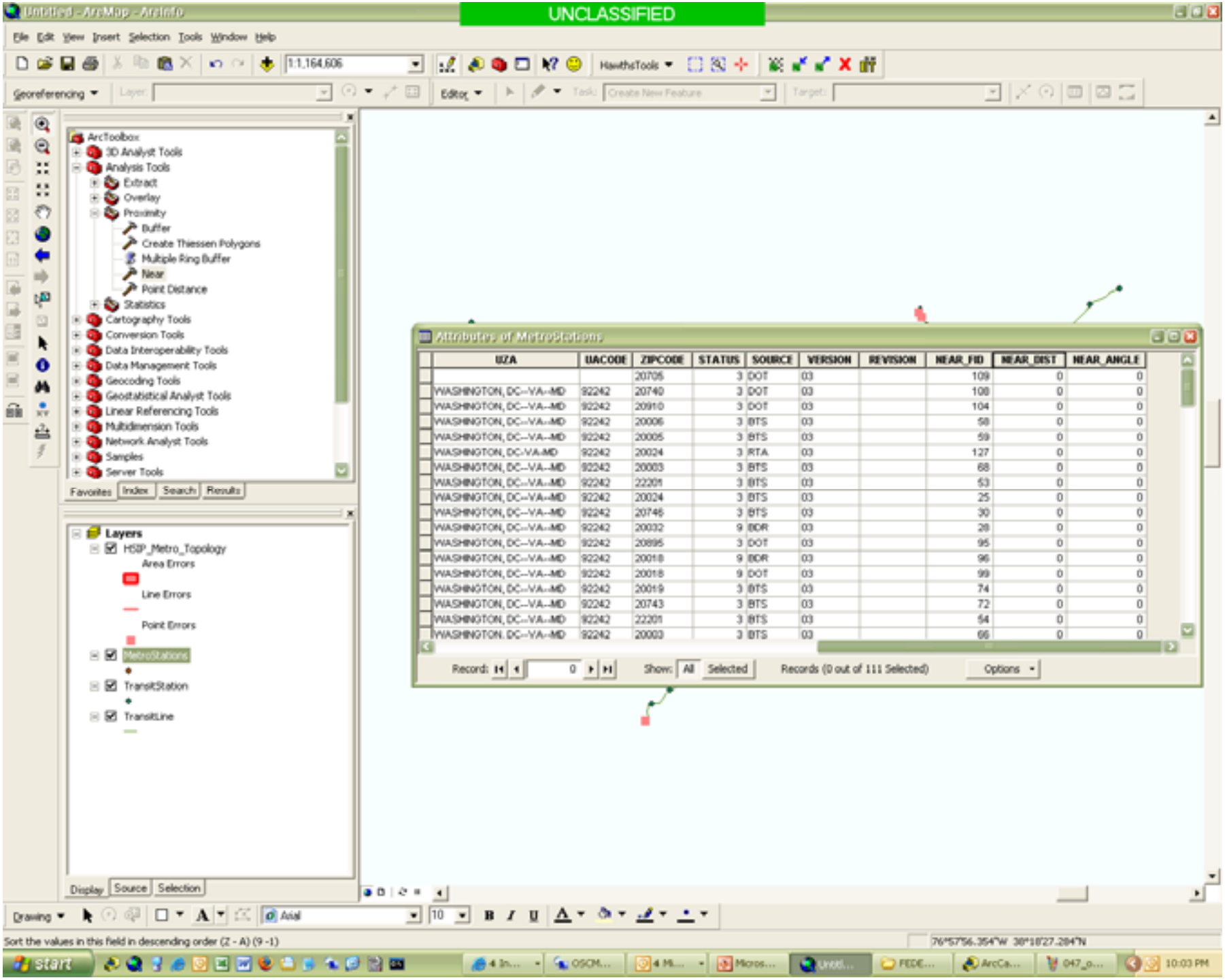
Selection
Drawing
Arial
10
Attributes of MetroStations
UZA
UACODE
ZIPCODE
STATUS
SOURCE
VERSION
REVISION
NEAR_FID
NEAR_DIST
NEAR_ANGLE
20705 3 DOT 03 109 0 0
WASHINGTON, DC--VA--MD 92242 20740 3 DOT 03 108 0 0
WASHINGTON, DC--VA--MD 92242 20910 3 DOT 03 104 0 0
WASHINGTON, DC--VA--MD 92242 20006 3 BTS 03 58 0 0
WASHINGTON, DC--VA--MD 92242 20005 3 BTS 03 59 0 0
WASHINGTON, DC-VA-MD 92242 20024 3 RTA 03 127 0 0
WASHINGTON, DC--VA--MD 92242 20003 3 BTS 03 68 0 0
WASHINGTON, DC--VA--MD 92242 22201 3 BTS 03 53 0 0
WASHINGTON, DC--VA--MD 92242 20024 3 BTS 03 25 0 0
WASHINGTON, DC--VA--MD 92242 20746 3 BTS 03 30 0 0
WASHINGTON, DC--VA--MD 92242 20032 9 BDR 03 28 0 0
WASHINGTON, DC--VA--MD 92242 20895 3 DOT 03 95 0 0
WASHINGTON, DC--VA--MD 92242 20018 9 BDR 03 96 0 0
WASHINGTON, DC--VA--MD 92242 20018 9 DOT 03 99 0 0
WASHINGTON, DC--VA--MD 92242 20019 3 BTS 03 74 0 0
WASHINGTON, DC--VA--MD 92242 20743 3 BTS 03 72 0 0
WASHINGTON, DC--VA--MD 92242 22201 3 BTS 03 54 0 0
WASHINGTON, DC--VA--MD 92242 20003 3 BTS 03 66 0 0
Record: 0
Show: All Selected
Records (0 out of 111 Selected)
Options
77°41'30.089"W 39°52'23.772"N
start
10:02 PM


UNCLASSIFIED
Untitled - ArcMap - ArcInfo
File Edit View Insert Selection Tools Window Help
ArcToolbox
3D Analyst Tools
Analysis Tools
Extract
Overlay
Proximity
Buffer
Create Thiessen Polygons
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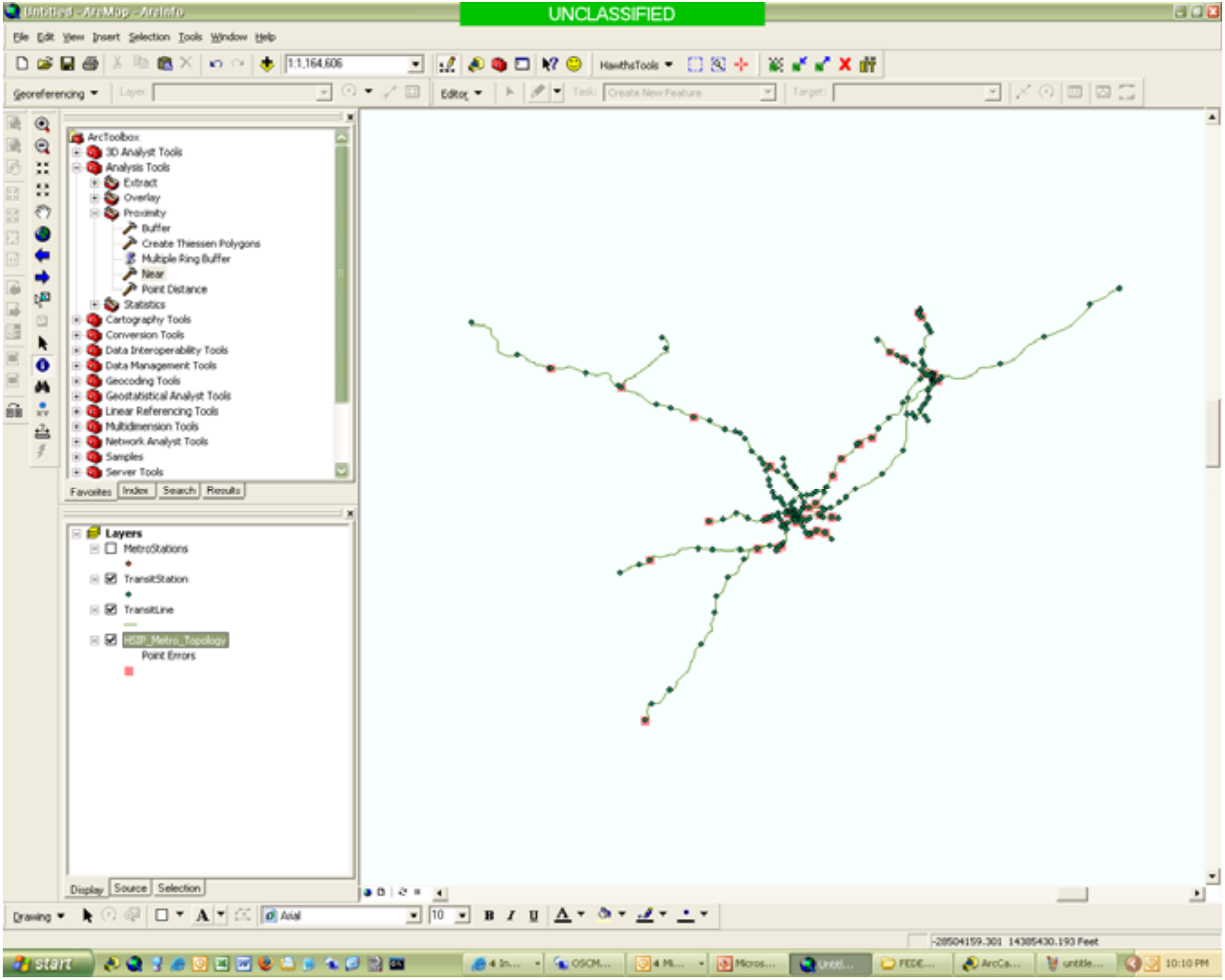
Line Errors
Point Errors
MetroStations
TransitStation
TransitLine
Display Source Selection
Attributes of MetroStations
UZA UACODE ZIPCODE STATUS SOURCE VERSION REVISION NEAR_FID NEAR_DIST NEAR_ANGLE
WASHINGTON, DC--VA--MD 92242 20705 3 DOT 03 109 0 0
WASHINGTON, DC--VA--MD 92242 20740 3 DOT 03 108 0 0
WASHINGTON, DC--VA--MD 92242 20910 3 DOT 03 104 0 0
WASHINGTON, DC--VA--MD 92242 20006 3 BTS 03 58 0 0
WASHINGTON, DC--VA--MD 92242 20005 3 BTS 03 59 0 0
WASHINGTON, DC-VA-MD 92242 20024 3 RTA 03 127 0 0
WASHINGTON, DC--VA--MD 92242 20003 3 BTS 03 68 0 0
WASHINGTON, DC--VA--MD 92242 22201 3 BTS 03 53 0 0
WASHINGTON, DC--VA--MD 92242 20024 3 BTS 03 25 0 0
WASHINGTON, DC--VA--MD 92242 20746 3 BTS 03 30 0 0
WASHINGTON, DC--VA--MD 92242 20032 9 BDR 03 28 0 0
WASHINGTON, DC--VA--MD 92242 20895 3 DOT 03 95 0 0
WASHINGTON, DC--VA--MD 92242 20018 9 BDR 03 96 0 0
WASHINGTON, DC--VA--MD 92242 20018 9 DOT 03 99 0 0
WASHINGTON, DC--VA--MD 92242 20019 3 BTS 03 74 0 0
WASHINGTON, DC--VA--MD 92242 20743 3 BTS 03 72 0 0
WASHINGTON, DC--VA--MD 92242 22201 3 BTS 03 54 0 0
WASHINGTON, DC--VA--MD 92242 20003 3 BTS 03 66 0 0
Record: 0 Show: All Selected Records (0 out of 111 Selected) Options
Drawing
Sort the values in this field in descending order (Z - A) (9 -1)
start
10:03 PM


Untitled - ArcMap - ArcInfo
File Edit View Insert Selection Tools Window Help
1:1,164,606
HawthsTools
Georeferencing
Layer:
Editor
Task:
Create New Feature
Target:
ArcToolbox
3D Analyst Tools
Analysis Tools
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Overlay
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Multiple Ring Buffer
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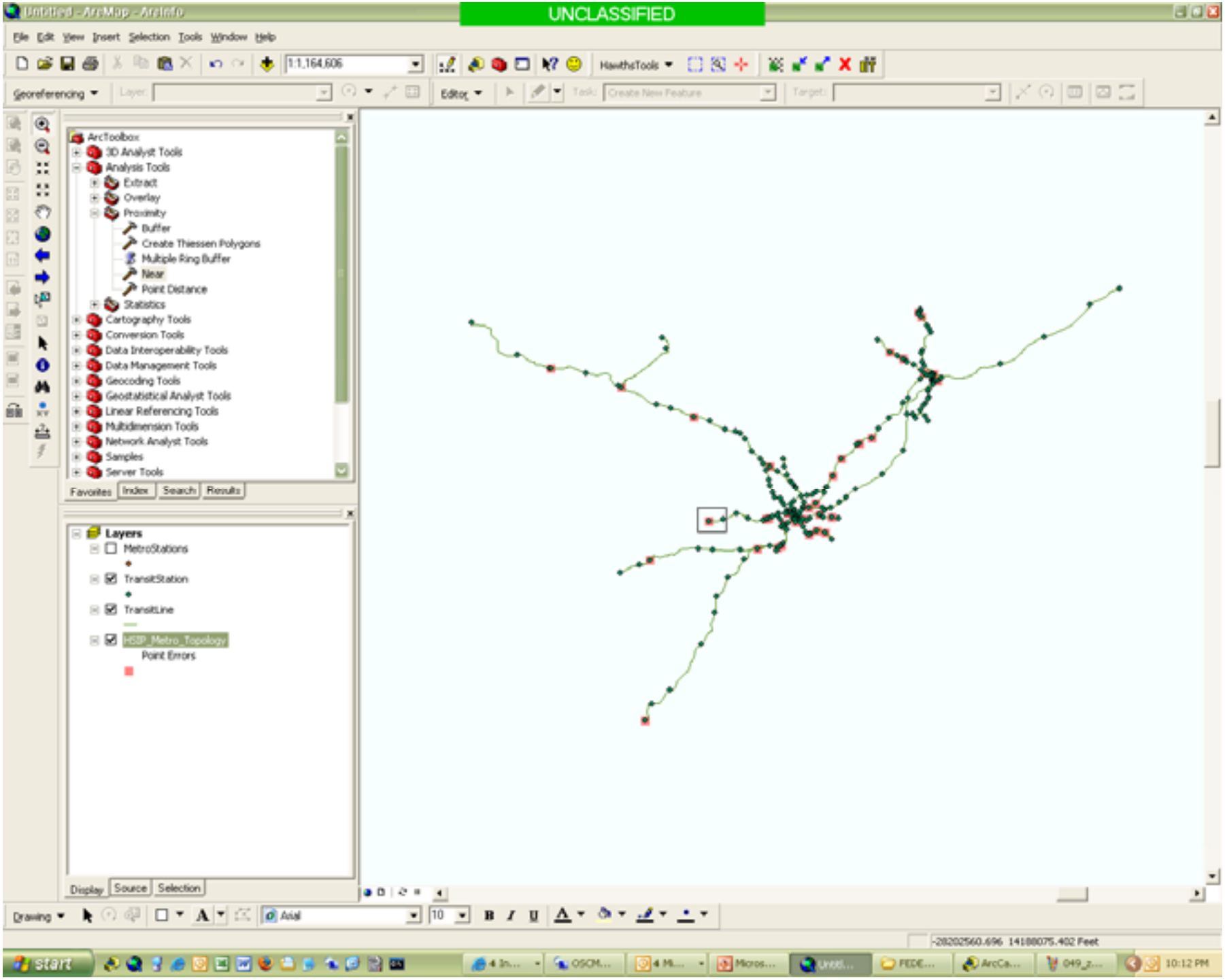
Drawing
Arial
10
-20504159.301 14385430.193 Feet
start
10:10 PM


Untitled - ArcMap - ArcInfo
File Edit View Insert Selection Tools Window Help
1:1,164,606
HawthsTools
Georeferencing
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Create New Feature
ArcToolbox
3D Analyst Tools
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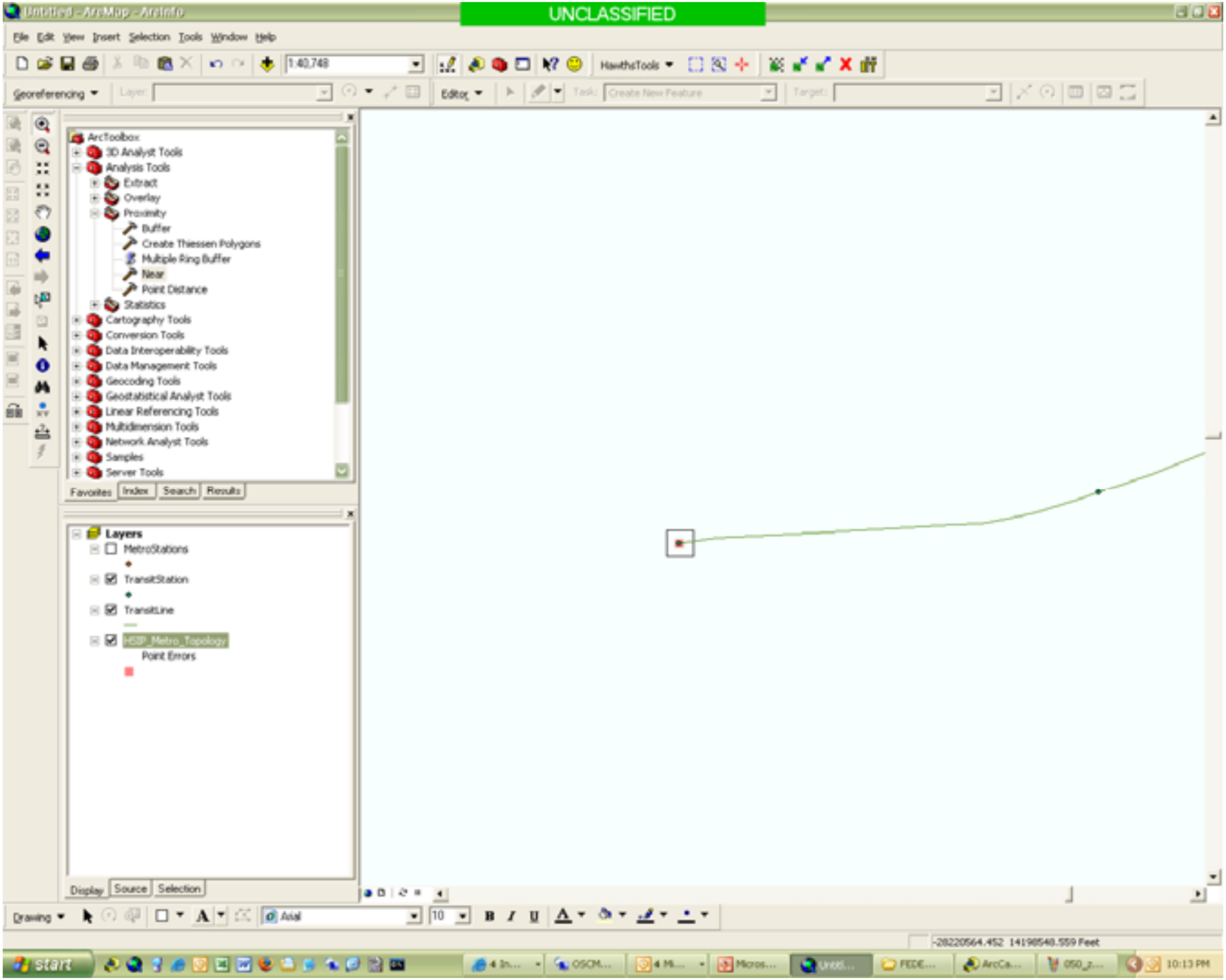
Point Errors
Display
Source
Selection
Drawing
Arial
10
-28202560.696 14188075.402 Feet
start
10:12 PM


UNCLASSIFIED
Untitled - ArcMap - ArcInfo
File Edit View Insert Selection Tools Window Help
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ArcToolbox
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Analysis Tools
Extract
Overlay
Proximity
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Selection
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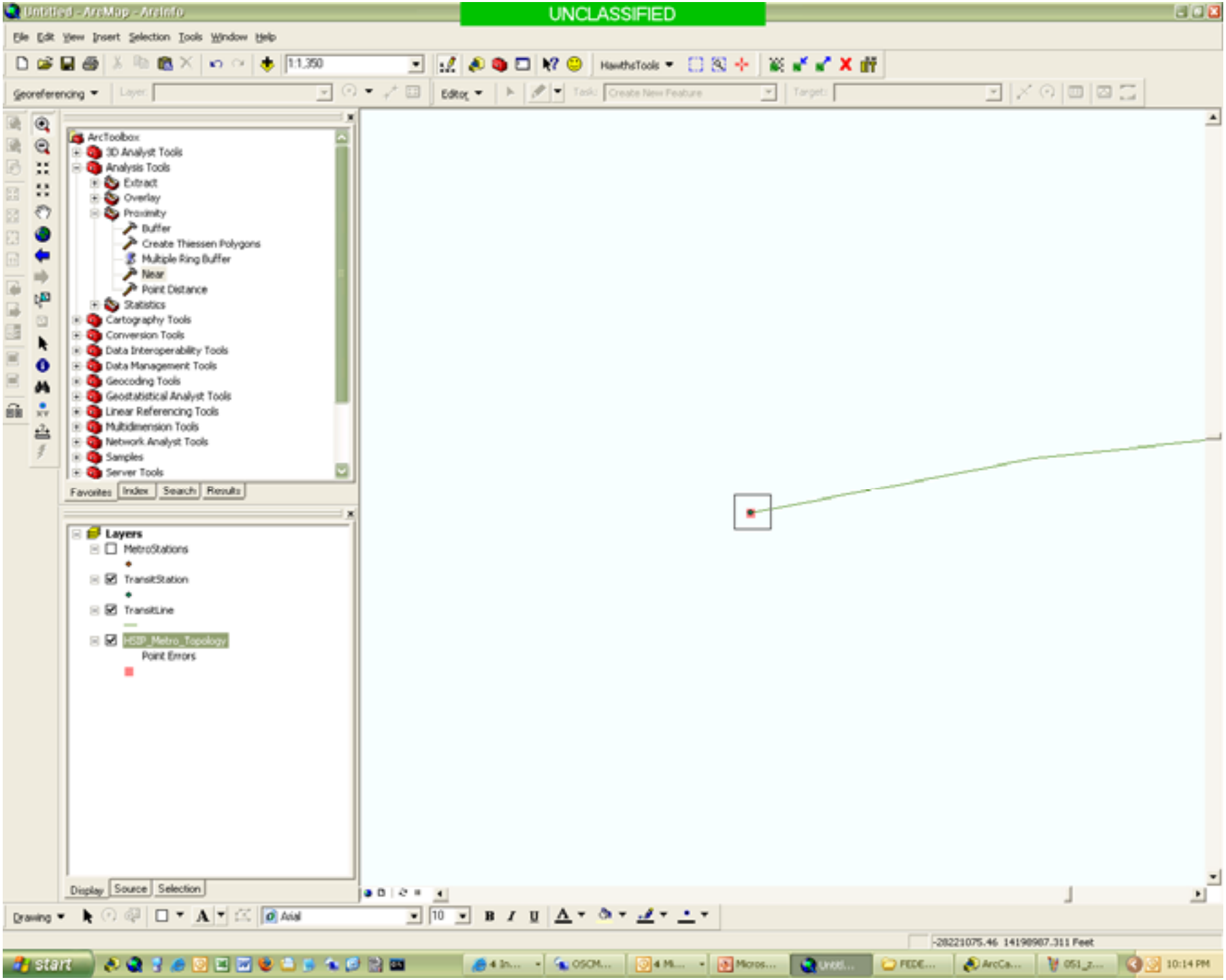
Arial
start
10:13 PM


UNCLASSIFIED
Untitled - ArcMap - ArcInfo
File Edit View Insert Selection Tools Window Help
1:1,350
HawthsTools
Georeferencing
Layer:
Editor
Task:
Create New Feature
Target:
ArcToolbox
3D Analyst Tools
Analysis Tools
Extract
Overlay
Proximity
Buffer
Create Thiessen Polygons
Multiple Ring Buffer
Near
Point Distance
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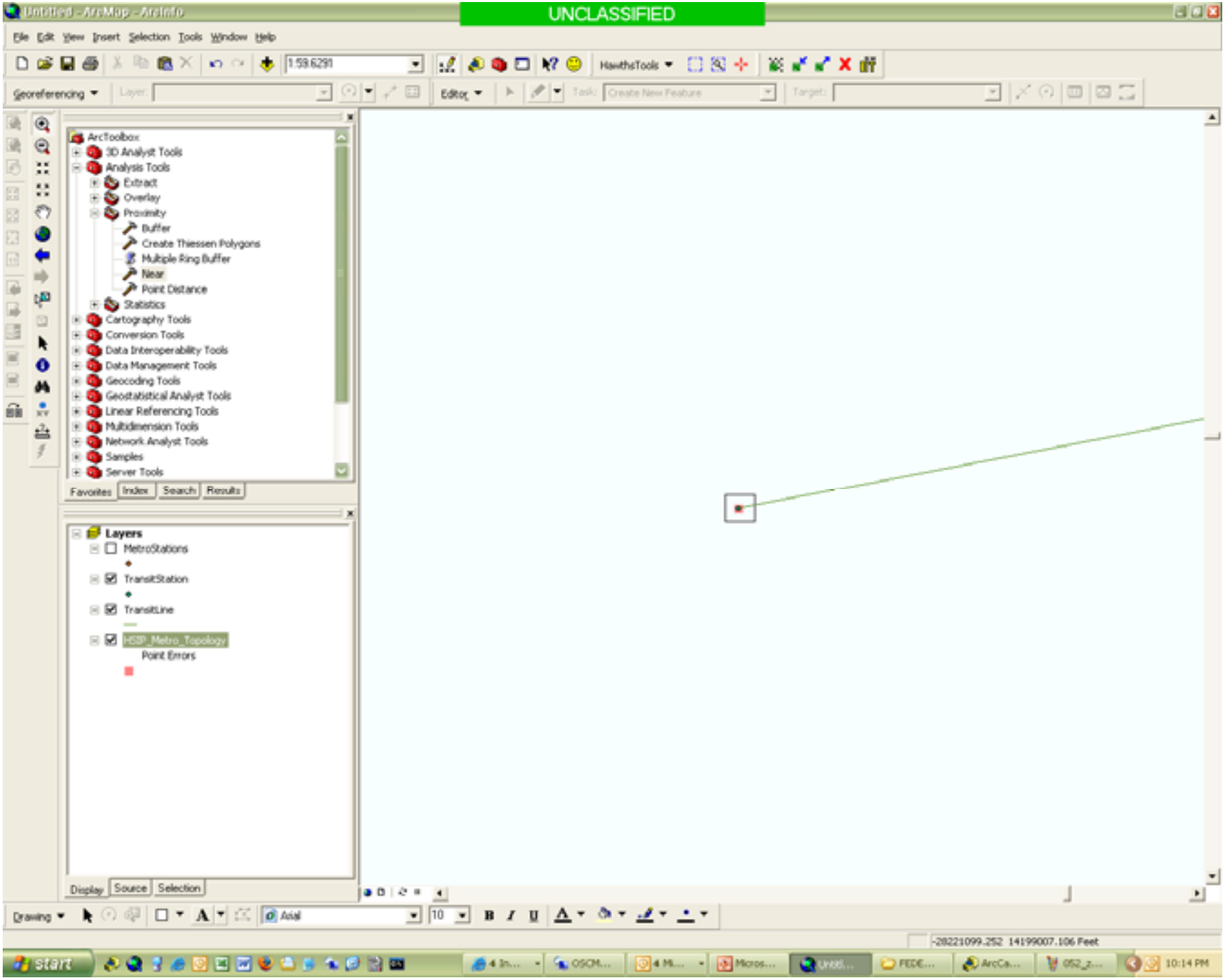
Point Errors
Display
Source
Selection
Drawing
Arial
10
-28221075.46 14190987.311 Feet
start
10:14 PM


Untitled - ArcMap - ArcInfo
File Edit View Insert Selection Tools Window Help
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ArcToolbox
3D Analyst Tools
Analysis Tools
Extract
Overlay
Proximity
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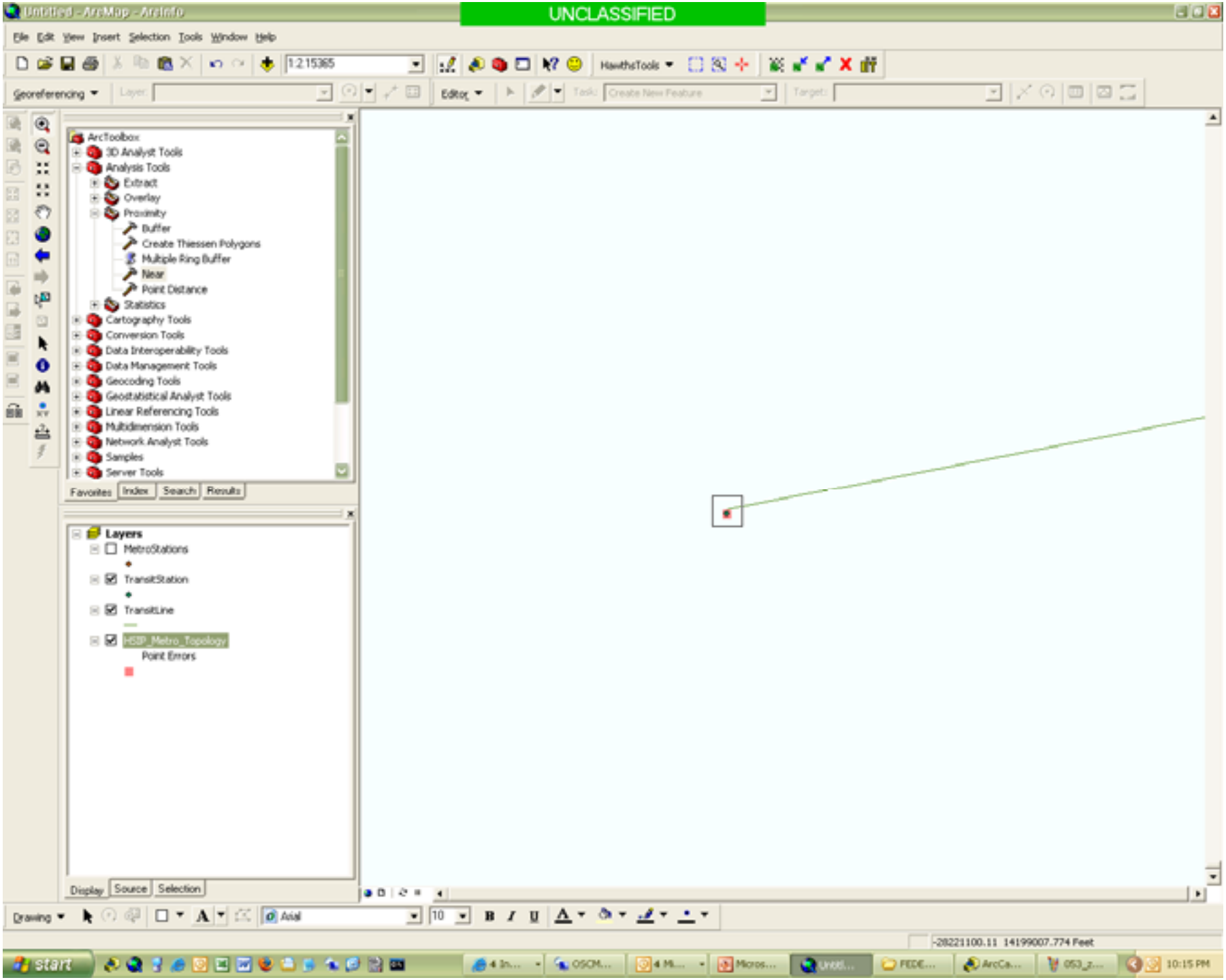
Source
Selection
Drawing
Arial
start
10:14 PM


UNCLASSIFIED
File Edit View Insert Selection Tools Window Help
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Editor
ArcToolbox
3D Analyst Tools
Analysis Tools
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Proximity
Buffer
Create Thiessen Polygons
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HSIP_Metro_Topology
Point Errors
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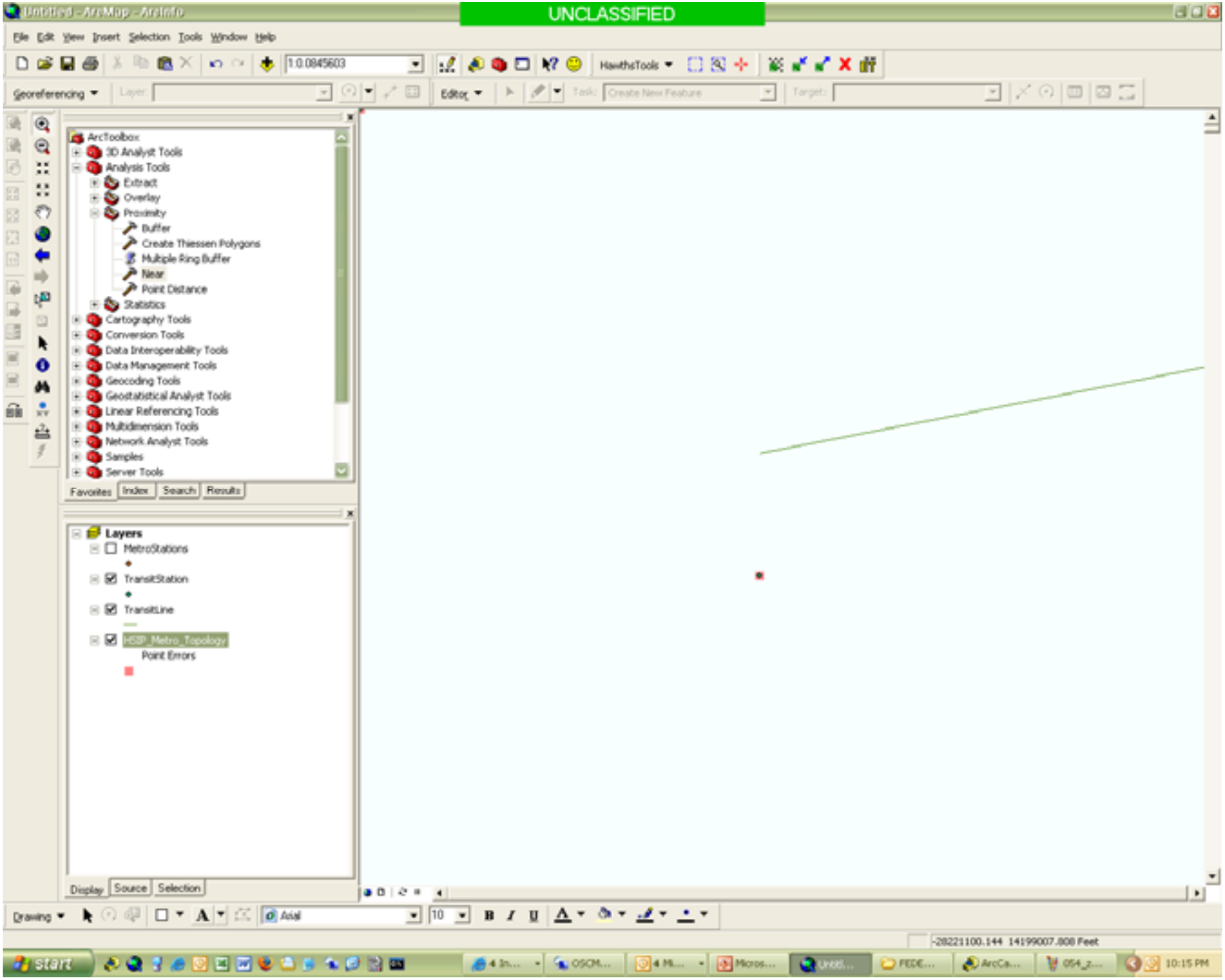
Source
Selection
Drawing
Arial
-28221100.11 14199007.774 Feet
start
10:15 PM


UNCLASSIFIED
File Edit View Insert Selection Tools Window Help
Georeferencing
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ArcToolbox
3D Analyst Tools
Analysis Tools
Extract
Overlay
Proximity
Buffer
Create Thiessen Polygons
Multiple Ring Buffer
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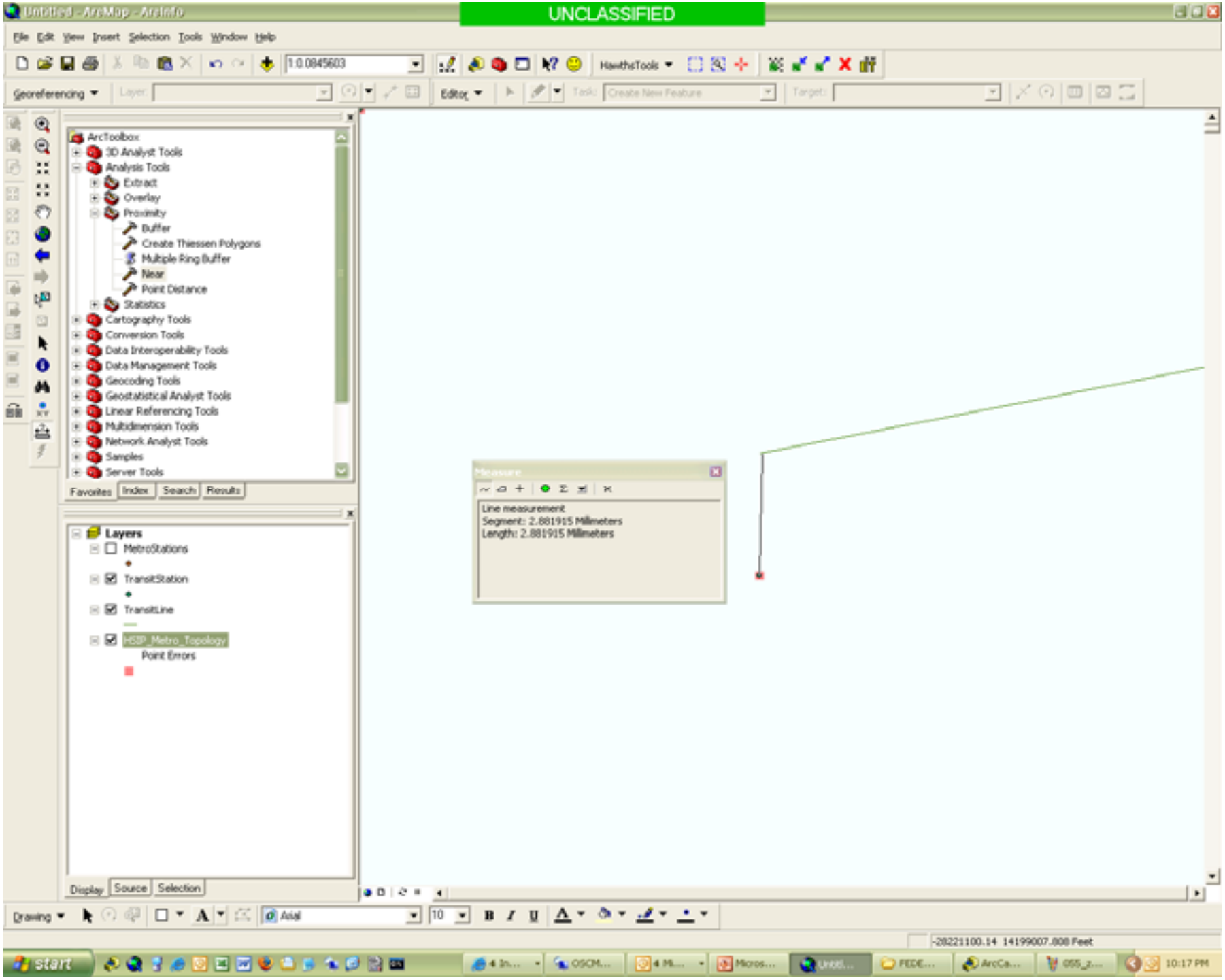
MetroStations
TransitStation
TransitLine
HSIP_Metro_Topology
Point Errors
Display
Source
Selection
Drawing
Arial
start
10:15 PM


UNCLASSIFIED
Untitled - ArcMap - ArcInfo
File Edit View Insert Selection Tools Window Help
Georeferencing
Editor
ArcToolbox
3D Analyst Tools
Analysis Tools
Extract
Overlay
Proximity
Buffer
Create Thiessen Polygons
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TransitStation
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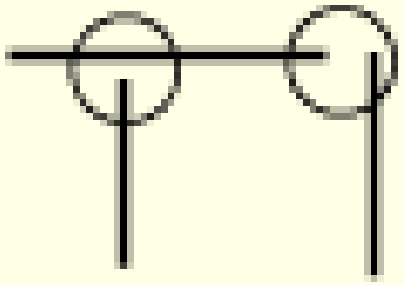
HSIP_Metro_Topology
Point Errors
Display
Source
Selection
Measure
Line measurement
Segment: 2.881915 Millimeters
Length: 2.881915 Millimeters
Drawing
Arial
-28221100.14 14199007.808 Feet
start
10:17 PM

Cluster Tolerance

Before Validate



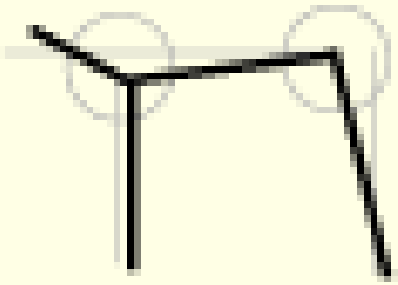
Cluster Tolerance

Equal Ranks

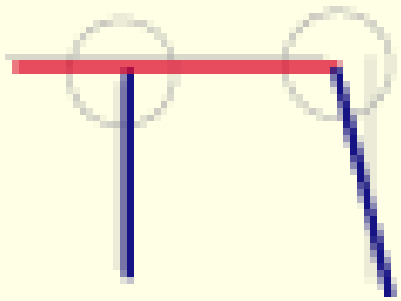
Higher Ranks

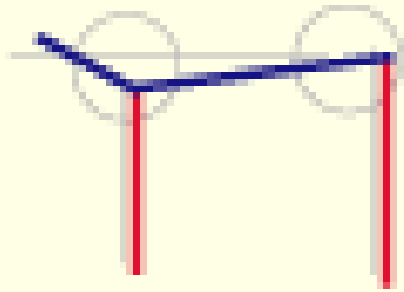
Lower Ranks

After Validate



Equal Ranks



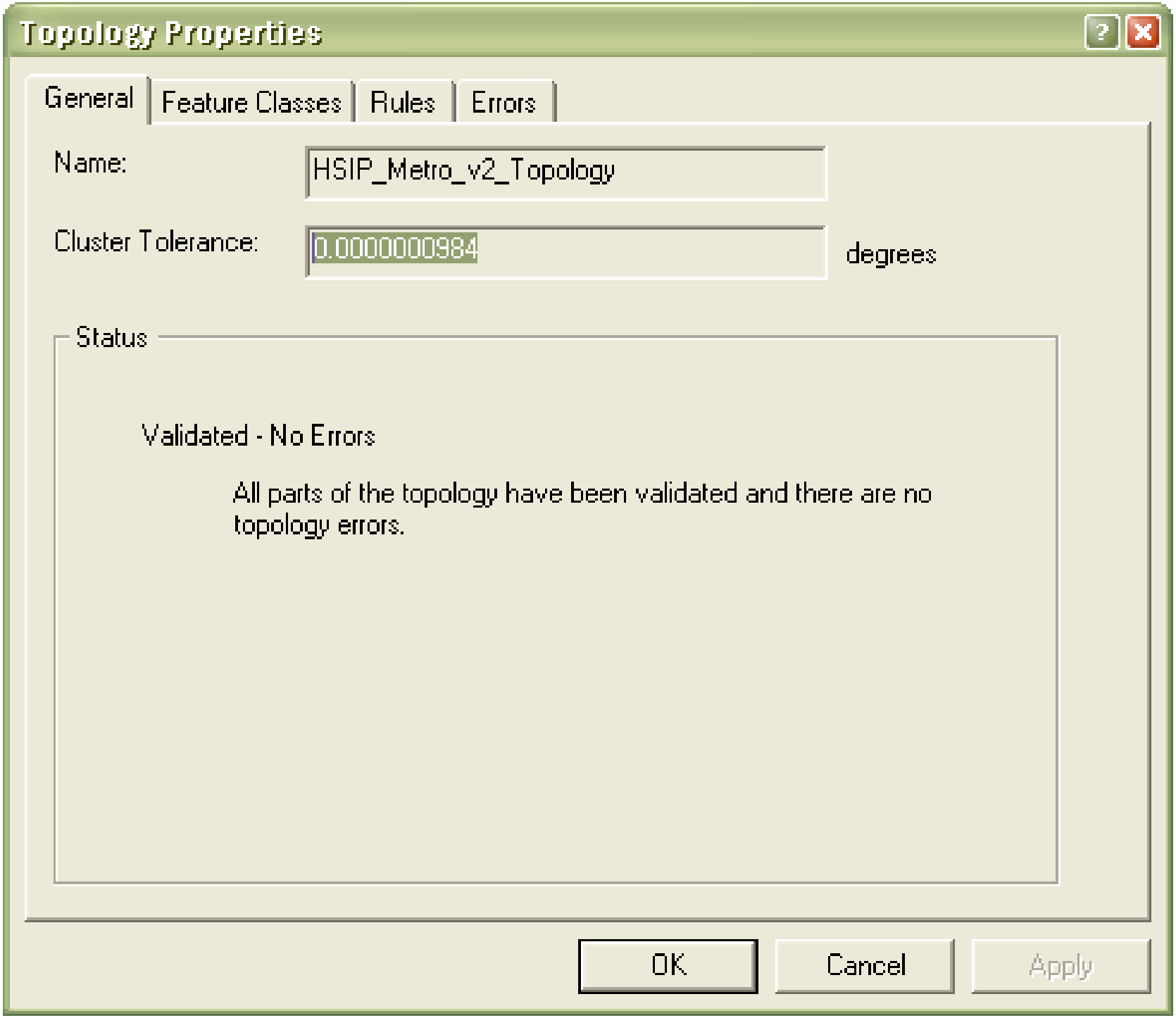


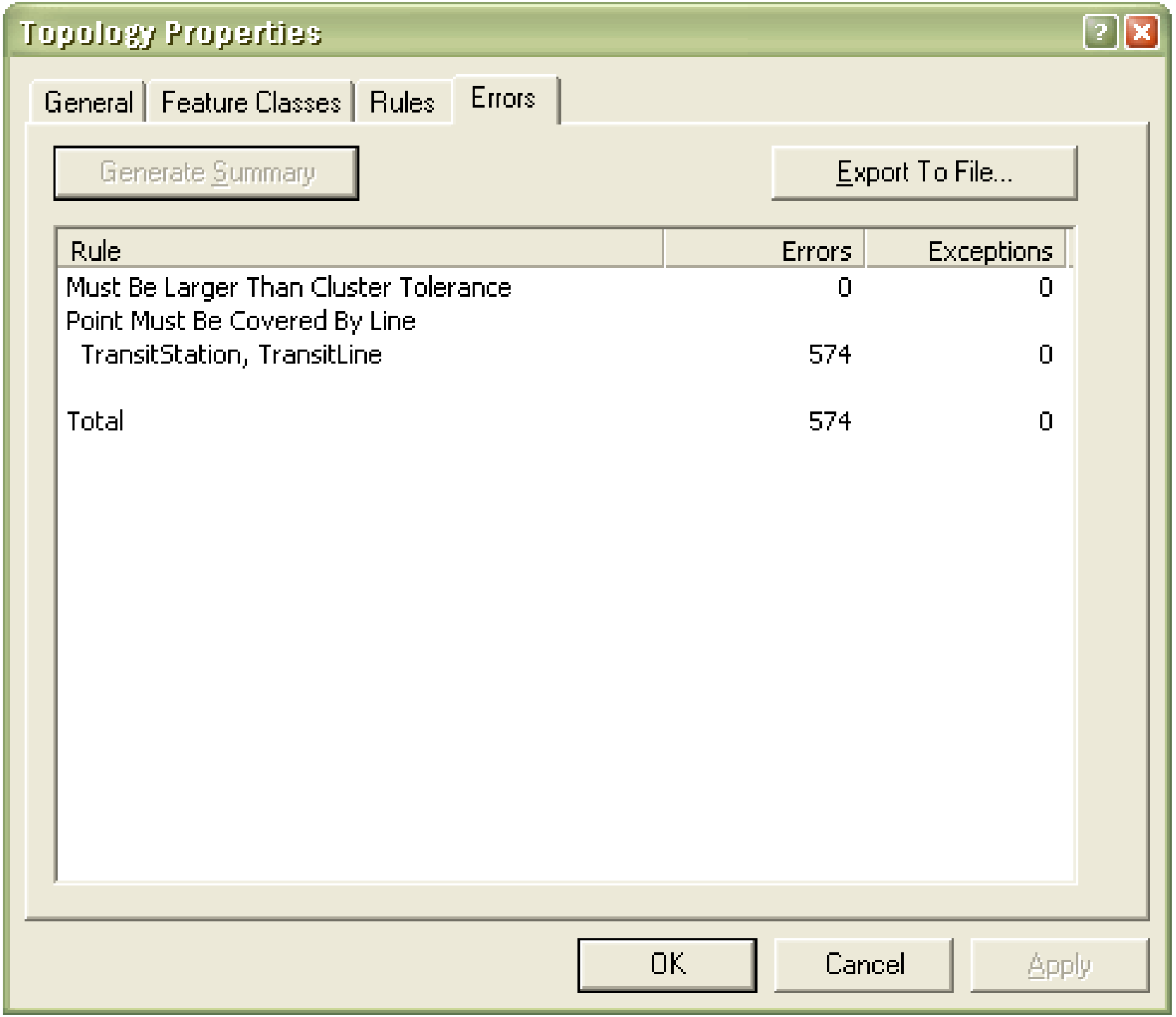
Unequal Ranks

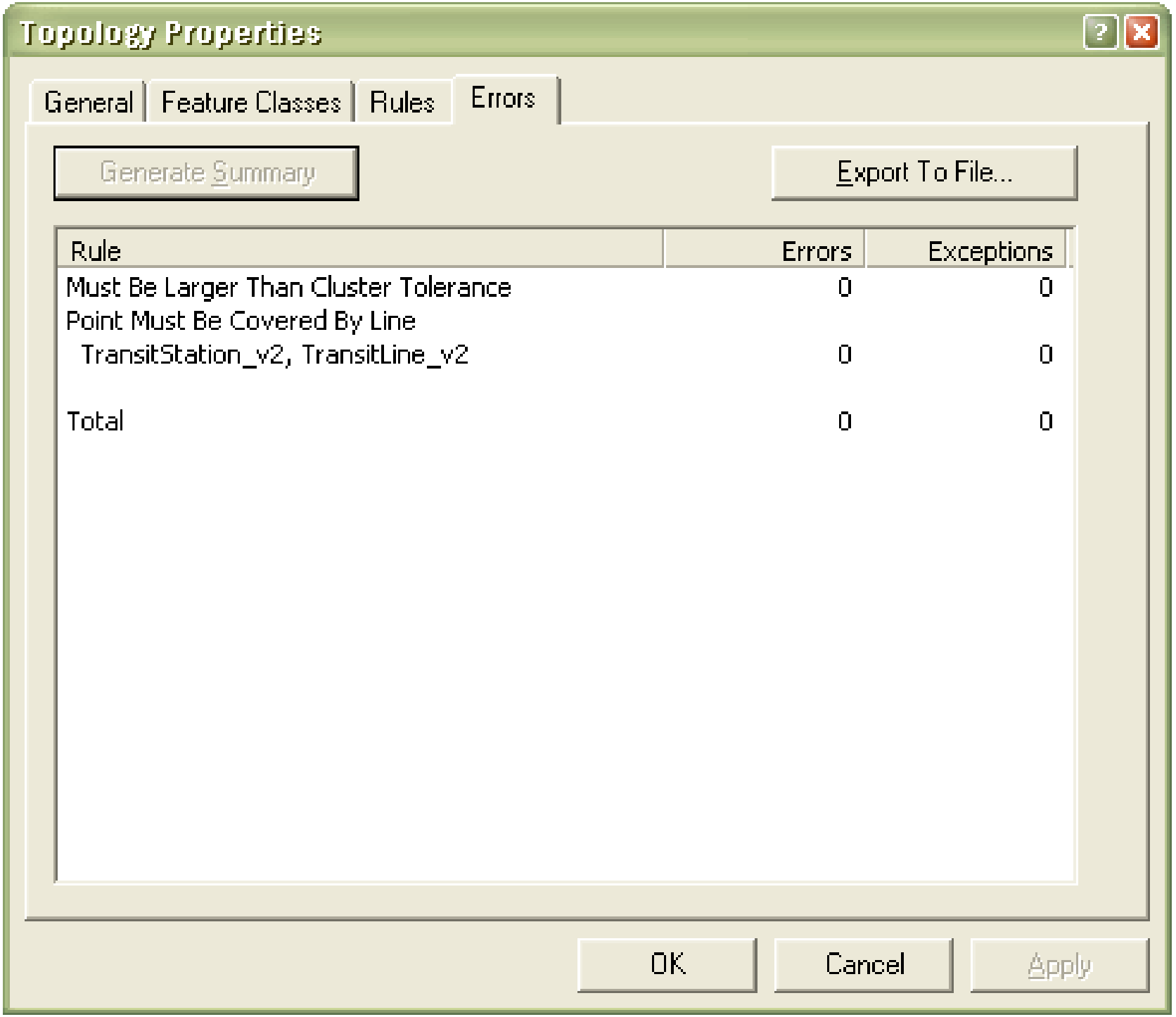
From ESRI

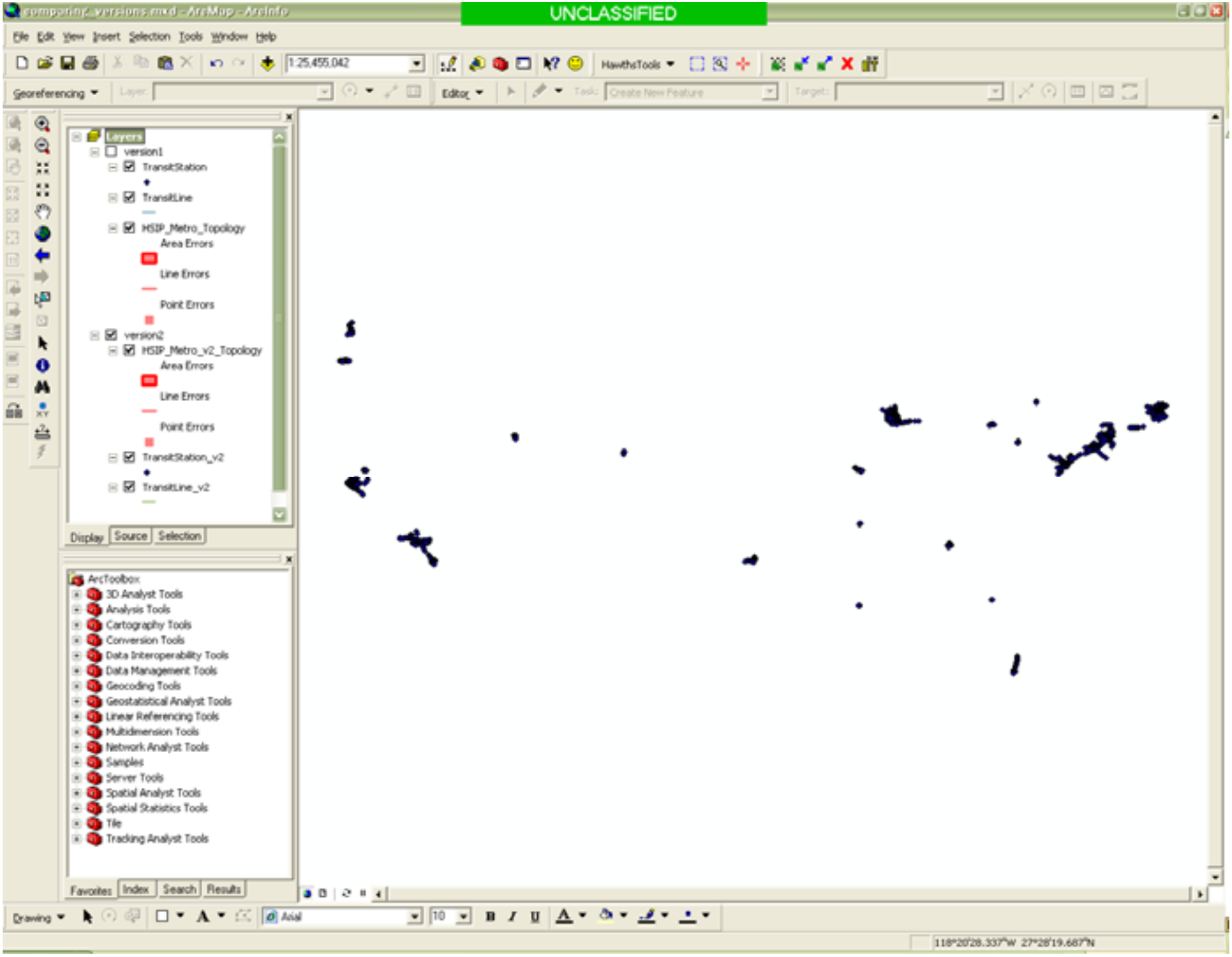
Determining Cluster Tolerance

if	100	feet	~equals	0.0003	decimal degrees
	and				
	100*12*25.4	mm	equals	100	feet
	then				
	30480	mm	equals	0.0003	decimal degrees
	and				
	1	mm	equals	0.0000000098425	decimal degrees
	3	mm	equals	0.0000000295276	decimal degrees
	10	mm	equals	0.0000000984252	decimal degrees
default cluster tolerance for WGS 84				0.0000000089832	decimal degrees


Topology Properties
General
Feature Classes
Rules
Errors
Name:
HSIP_Metro_v2_Topology
Cluster Tolerance:
0.0000000984
degrees
Status
Validated - No Errors
All parts of the topology have been validated and there are no topology errors.
OK
Cancel
Apply


Topology Properties
General
Feature Classes
Rules
Errors
Generate Summary
Export To File...
Rule
Errors
Exceptions
Must Be Larger Than Cluster Tolerance
0
0
Point Must Be Covered By Line
TransitStation, TransitLine
574
0
Total
574
0
OK
Cancel
Apply


Topology Properties
General
Feature Classes
Rules
Errors
Generate Summary
Export To File...
Rule
Errors
Exceptions
Must Be Larger Than Cluster Tolerance
0
0
Point Must Be Covered By Line
TransitStation_v2, TransitLine_v2
0
0
Total
0
0
OK
Cancel
Apply


comparing_versions.mxd - ArcMap - ArcInfo
UNCLASSIFIED
File Edit View Insert Selection Tools Window Help
1:25,455,042
HawthsTools
Georeferencing
Editor
Create New Feature
Layers
version1
TransitStation
TransitLine
HSIP_Metro_Topology
Area Errors
Line Errors
Point Errors
version2
HSIP_Metro_v2_Topology
Area Errors
Line Errors
Point Errors
TransitStation_v2
TransitLine_v2
Display Source Selection
ArcToolbox
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Analysis Tools
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Data Management Tools
Geocoding Tools
Geostatistical Analyst Tools
Linear Referencing Tools
Multidimension Tools
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Spatial Analyst Tools
Spatial Statistics Tools
Tile
Tracking Analyst Tools
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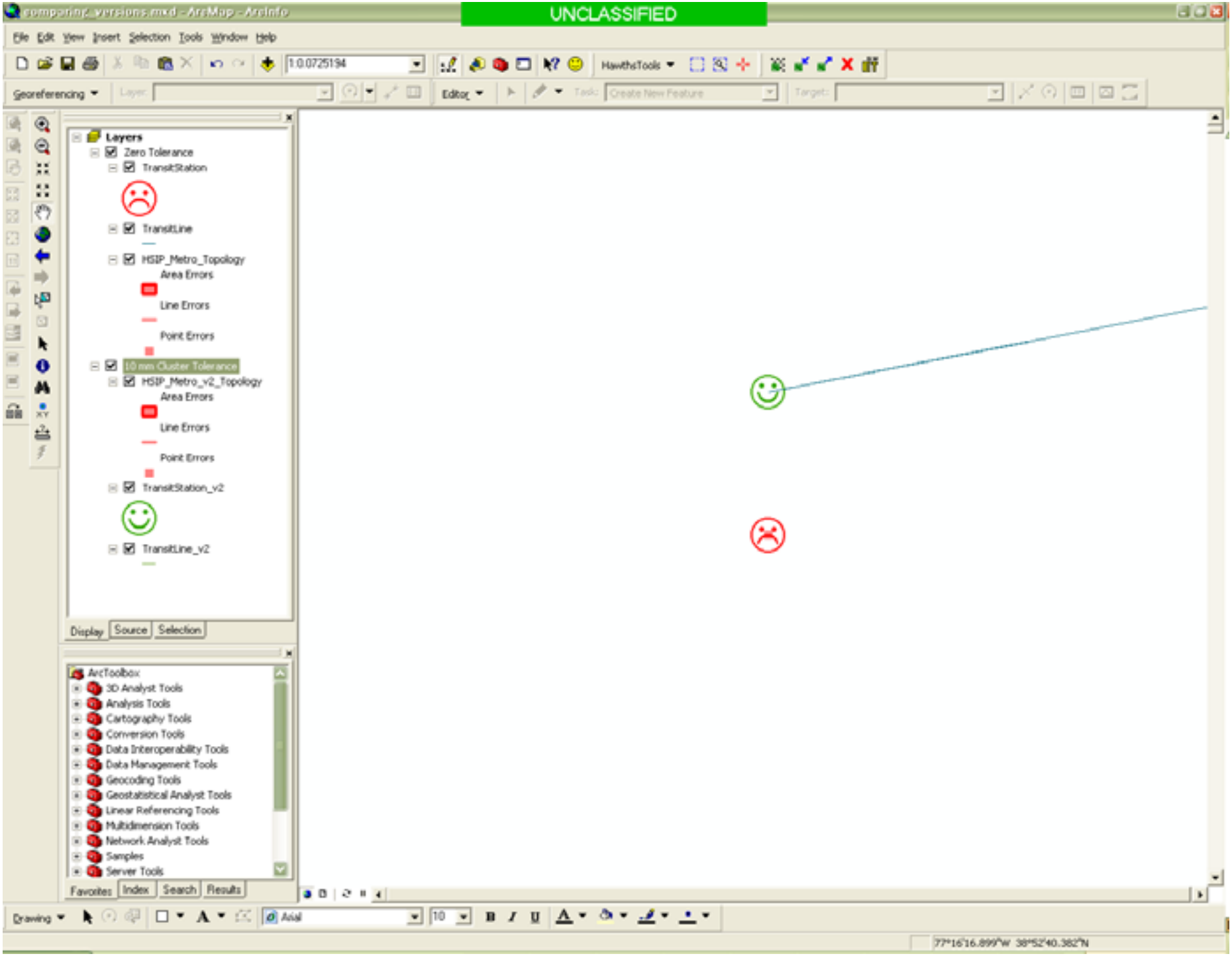
Drawing
Arial
10
118°20'28.337"W 27°28'19.687"N


UNCLASSIFIED
File Edit View Insert Selection Tools Window Help
Georeferencing
Editor
Layers
Zero Tolerance
TransitStation
TransitLine
HSIP_Metro_Topology
Area Errors
Line Errors
Point Errors
10 mm Cluster Tolerance
HSIP_Metro_v2_Topology
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Topics

- Explain topology and its related components
- Show how to build a topological relationship in ArcGIS
- Discuss the benefits and drawbacks of topological relationships

Topology Validated

- Is the data better?
- Cluster tolerance and coordinate shifts

Topology isn’t

- A good way to “correct” data *creation* discrepancies
- Necessary for simple display/identification of data

Topology and shapefiles

- A final word of caution:

Understanding Topological “Errors”

- Errors are just violations of User Set Rules
- Setting Rules is arbitrary

Valid Reasons For Topological "Errors"

- Most important: Resolution of the data
- Definition of features and how they relate to each other
  - Not everyone looks at a river the same way.

Summary

- Talked about topology, cluster tolerances, and data source considerations
- Looked at an example of topology creation in ArcGIS
- Considered the ups and downs of topological relationships between datasets.

Thanks for sticking around!

- Questions
- Comments