SR 115/US 129
“The Dragon” Slide

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Map of area/setting
Slope deemed unsafe for traffic after inspection
Aerial view on March 19, 2010
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The small stuff can also be disconcerting
Remedial Measures
Often used in combination

- **Removal** – Blasting, scaling, trimming
- **Restraint** – High capacity anchors, rock bolts, anchored wire mesh, retaining walls
- **Control** – Draped wire mesh
- **Containment** – High energy fencing
- **Widening of ditch/catchment area**
Trimming and Scaling underway, shown on April 11, 2010
More trimming and scaling
Cleaning portions of the slope with compressed air
View of slope showing debris used as berm along lake
View from top of slope
House of cards, originally to be trimmed and scaled, to be removed
Drilling for blasting
More drilling
House of cards before 1st shot
House of cards after 1st shot
House of cards after 2\textsuperscript{nd} shot
View from Ox Blue camera location
Remote Camera
Anchors prepared for installation
Anchors/dowels prior to grouting
Closely spaced anchors on ledge
View of slope from Chilhowee Lake
Slope on May 14, 2011

Remainder of Block (to be removed)
More trim blasting
Slope before and after trim shot on May 18th
Trim shot on May 21st
Before and after trim shot on May 21st
Adding to water to assist gravity
Tracking movement of House of Cards on June 7th
Drilling for anchors on slope face
Installing wire mesh and drilling for anchors
Preparing to install wire mesh
Hanging wire mesh
Weaving mesh together
Attempting to drill for one more shot
Beats climbing up a rope (for most of us)
One last shot on June 26th
A lot of rubble, but rock remains
Excavating rubble
Wire mesh drape curtain in place
Road and ditch below wire mesh curtain
April of 2011, time for some debris removal
Challenges

• Developing/selecting the most cost-effective remedial measures (maintaining traffic is a critical factor).
• Producing construction plans/contract documents
• Funding
• Keeping database up-to-date