

2015 PLS-CADD Advanced Training and User Group

# What's New in TOWER

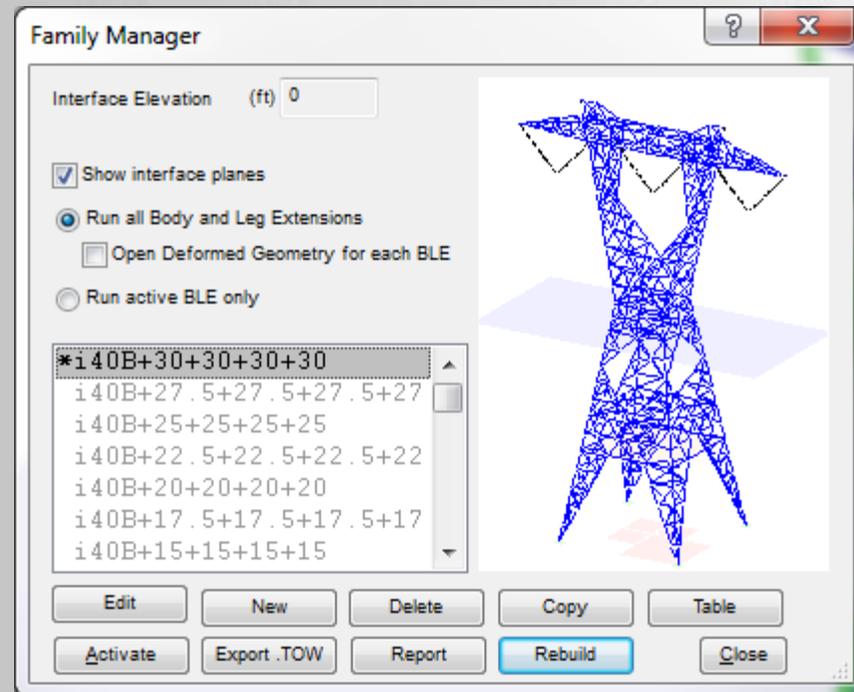
by

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# The Family Manager

- Model / Family Manager
  - Create and manage configurations of leg and body extensions



# The Family Manager (Cont.)

- Body and Leg Extension (BLE) Configurations
  - Up to 4 body and 4 leg extensions per configuration (complete TOWER model)
  - 512 configurations in **one “.tow”** file
    - No extra files required
  - Build configuration simply by selecting body and leg extensions

Body/Leg Configuration

Name: 40B+30+30+30+30

Description: [Empty]

Override Name with the following for file name suffix: [Empty]

Z of ground for wind height adjust and PLS-CADD centerline: (ft) -70

Include in analysis      Display: Entire Model

Extensions

	Starts At	Right click on combobox for commands
Body 1	(ft) 0	40' Body
Body 2	(ft)	
Body 3	(ft)	
Body 4	(ft)	
Legs start at	(ft) -40	
Leg 1		30' Leg
Leg 2		30' Leg
Leg 3		30' Leg
Leg 4		30' Leg

OK      Cancel

# Body and Leg Extensions

- Reusable collection of joints and members
- Has a stock number
- Create by
  - Building in current model
  - Importing from another model
- Must be vertically contiguous

Body/Leg Configuration

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Description:

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OK      Cancel

# The Family Manager – Getting Started

- Begin with tallest member of the family
  - Define Interface Joint (Elevation)
  - Then cut into extensions with horizontal planes
  - Extensions are stacked vertically
- Make one configuration for each Leg/Body Extension
- Recommend modeling Leg Extensions in Quadrant 1
  - Can reflect them into any other quadrant

# The Family Manager – Benefits

- Automatically analyzes all configurations at once
  - Groups & Foundation Reactions SuperSet
  - Optimization
  - Allowable Spans/Interaction Diagrams
- Changes propagate automatically between configurations
- Easier file management (all in one .tow file) during development
- Quickly create site specific configurations

# Power Line Systems

IT'S ALL ABOUT YOUR POWER LINES

Advanced Sag & Tension IEC FAC 008/009  
NESC Materials Management LiDAR Modeling  
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Pole Analysis CENELEC Distribution  
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FAC 003 ASCE Joint Use PLS-POLE  
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IEEE Line Ratings  
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