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**From:** [REDACTED]  
**To:** [REDACTED]  
**Sent:** 11/30/2020 11:29:50 AM  
**Subject:** FW: Tree Strike Modeling - 2021 System Hardening  
**Attachments:** 2020-11-25 Tree Strike KMZ.zip; 2020-11-25 Tree Strike Modeling.pptx

[REDACTED]  
Please see attached.

Thank you,  
[REDACTED]

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**From:** [REDACTED]  
**Sent:** Wednesday, November 25, 2020 16:24  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** FW: Tree Strike Modeling - 2021 System Hardening

[REDACTED],  
Attached are the results for the 7 circuits. Note as we discussed that the calculations are performed at the circuit level and only included HFTD 2/3 regions. Wish you a happy and safe Thanksgiving!

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**From:** [REDACTED]  
**Sent:** Monday, November 23, 2020 12:36 PM  
**To:** [REDACTED]  
**Subject:** RE: Tree Strike Modeling - 2021 System Hardening  
**Importance:** High

[REDACTED],  
I'm sorry I just found that some T2/T3 data includes HFTD 0 district. I will exclude the HFTD 0 zones and only do calculations for HFTD 2/3 districts. Thanks,

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**From:** [REDACTED]  
**Sent:** Monday, November 23, 2020 11:16 AM  
**To:** [REDACTED]  
**Subject:** RE: Tree Strike Modeling - 2021 System Hardening

[REDACTED]  
Thanks for the clarification. It is easier to do an entire circuit, but veg data are only collected for T2/T3 areas **so inherently the outputs are for HFTD 2/3 areas**. I don't see protection zones marked in the veg outputs. You may

need to use the KMZ files and zoom into the zone of interest. Thanks,

[REDACTED]

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**From:** [REDACTED]  
**Sent:** Monday, November 23, 2020 11:10 AM  
**To:** [REDACTED]  
**Subject:** RE: Tree Strike Modeling - 2021 System Hardening

[REDACTED],

The CB is the protection zone. I assume it'll be easier for you to run the model for the entire circuit instead of trying to break it down by pixel or zone.

Is it possible to get a layer that shows only the HFTD 2/3? Or break the data down by HFTD? Can we break down the data by protective zone?

Thanks,

[REDACTED]

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**From:** [REDACTED]  
**Sent:** Monday, November 23, 2020 10:06 AM  
**To:** [REDACTED]  
**Subject:** RE: Tree Strike Modeling - 2021 System Hardening

[REDACTED]

Is there any specific meaning for the "CB" and the post-first four digits designations in the circuit names? The veg data I received is for the entire feeder number, so if my calculations are meant for a subset of a feeder I will need your help to provide polygons of the area of interest. Otherwise I will do calculations for each entire feeder number on the list. For example for the two Middletown 1102 CPZ I will only perform one calculation for Feeder #043141102 which will include both CPZs. Thanks,

[REDACTED]

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**From:** [REDACTED]  
**Sent:** Tuesday, November 10, 2020 11:16 AM  
**To:** [REDACTED]  
**Subject:** RE: Tree Strike Modeling - 2021 System Hardening

[REDACTED],

Please see updated data.

FEEDER #	CPZ	COUNTY	DI
042871101	UPPER LAKE 1101CB	LAKE	HM
103451101	KESWICK 11011586	SHASTA	NV
043141102	MIDDLETOWN 1102302610	LAKE	HM
043141102	MIDDLETOWN 1102CB	LAKE	HM
043311102	KONOCI 1102965078	LAKE	HM
254452102	MARIPOSA 2102241564	MARIPOSA	YO
102211101	BUCKS CREEK 1101CB	PLUMAS	NV

043141103 MIDDLETOWN 1103CB LAKE HM  
043141103 MIDDLETOWN 1103830 LAKE HM

Thank you,

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**From:** [REDACTED]  
**Sent:** Tuesday, November 10, 2020 11:01  
**To:** [REDACTED]  
**Subject:** RE: Tree Strike Modeling - 2021 System Hardening

Hi [REDACTED]

Do you have the corresponding feeder numbers for the circuits? The vegetation database works on feeder numbers. They are 9 digits, for example "152762101" for EI Dorado PH 2101. Work can start without a PM, but I will need the PMs before the job can be closed 😊. The cost to run them all should be less than \$10K, for simpler management I like to put them all into on ATS job if you don't mind. Please let me know which PM should I use when you have them. Thanks,

[REDACTED]  
[REDACTED]  
Mechanical Engineering and Numerical Analysis  
Applied Technology Services (ATS)  
Cell: [REDACTED]

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**From:** [REDACTED]  
**Sent:** Tuesday, November 10, 2020 10:49 AM  
**To:** [REDACTED]  
**Subject:** Tree Strike Modeling - 2021 System Hardening

Hi [REDACTED],

Can you please run the tree strike modeling for the following circuits with the KMZ, excel sheet, and power point outputs? We're working to get the PM numbers for the projects, but it'll be in the following feeders/zones:

UPPER LAKE 1101 CB  
KESWICK 1101 LR 1586  
MIDDLETOWN 1102 LR 302610  
MIDDLETOWN 1102 CB  
KONOCTI 1102 LR 965078  
MARIPOSA 2102 LR 241564  
BUCKS CREEK 1101 CB  
MIDDLETOWN 1103 CB  
MIDDLETOWN 1103 LR 830

Do you need the PM number before you can send the ATS approval? Can you request the vegetation data the vegetation data today without a PM? Senior leadership wants us to get moving on this ASAP after the new risk model pivot.

I'm requesting the planning orders today and will hopefully have PM's by the end of the week.

Thanks,

[REDACTED]  
DE Sr Cons – Grid Design  
[REDACTED]