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**From:** [REDACTED]  
**To:** [REDACTED]  
**Sent:** 4/7/2021 11:22:26 AM  
**Subject:** RE: EVM Risk Buydown  
**Attachments:** System Hardening Project vs Program RSE

[REDACTED]

I'm trying to vet how they got to the risk buydown. The below is what I'm trying to validate if indeed they're actually using the 27% or 4% overall, or are they giving credit for the entire CS they do. SH uses the 62%, which is meant for PSPS descoping on WWD, but they use it for overall effectiveness.

I'm not sure if you saw the pre-read about the Risk Reduction model, in that documentation there's another percentage of 63%. Anyways, I'm worried about the different effectiveness flying around.

Think you need to get a handle on risk buydown units, risk reduction and RSEs. I tried to provide my interpretation of the difference between them in my email to you [REDACTED] (attached), but need you to also reinforce the difference. This will be confusing for WSD and GRC materials.

Thanks  
[REDACTED]

[Monday 4:17 PM] [REDACTED]

This is the last "official" documentation I have that was presented to leadership: "EVM will avoid **27 percent of vegetation** and **4 percent of overall**"

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**From:** [REDACTED]  
**Sent:** Wednesday, April 7, 2021 11:16 AM  
**To:** [REDACTED]  
**Subject:** RE: EVM Risk Buydown

I have struggled to join the dots with VM too

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**From:** [REDACTED]  
**Sent:** Wednesday, April 7, 2021 11:01 AM  
**To:** [REDACTED]  
**Subject:** FW: EVM Risk Buydown

FYI, I've been trying to understand the data that supports the Risk Buy Down row. Are you familiar? [REDACTED] is out, but [REDACTED] told me to reach out to [REDACTED] directly instead, which concerns me.

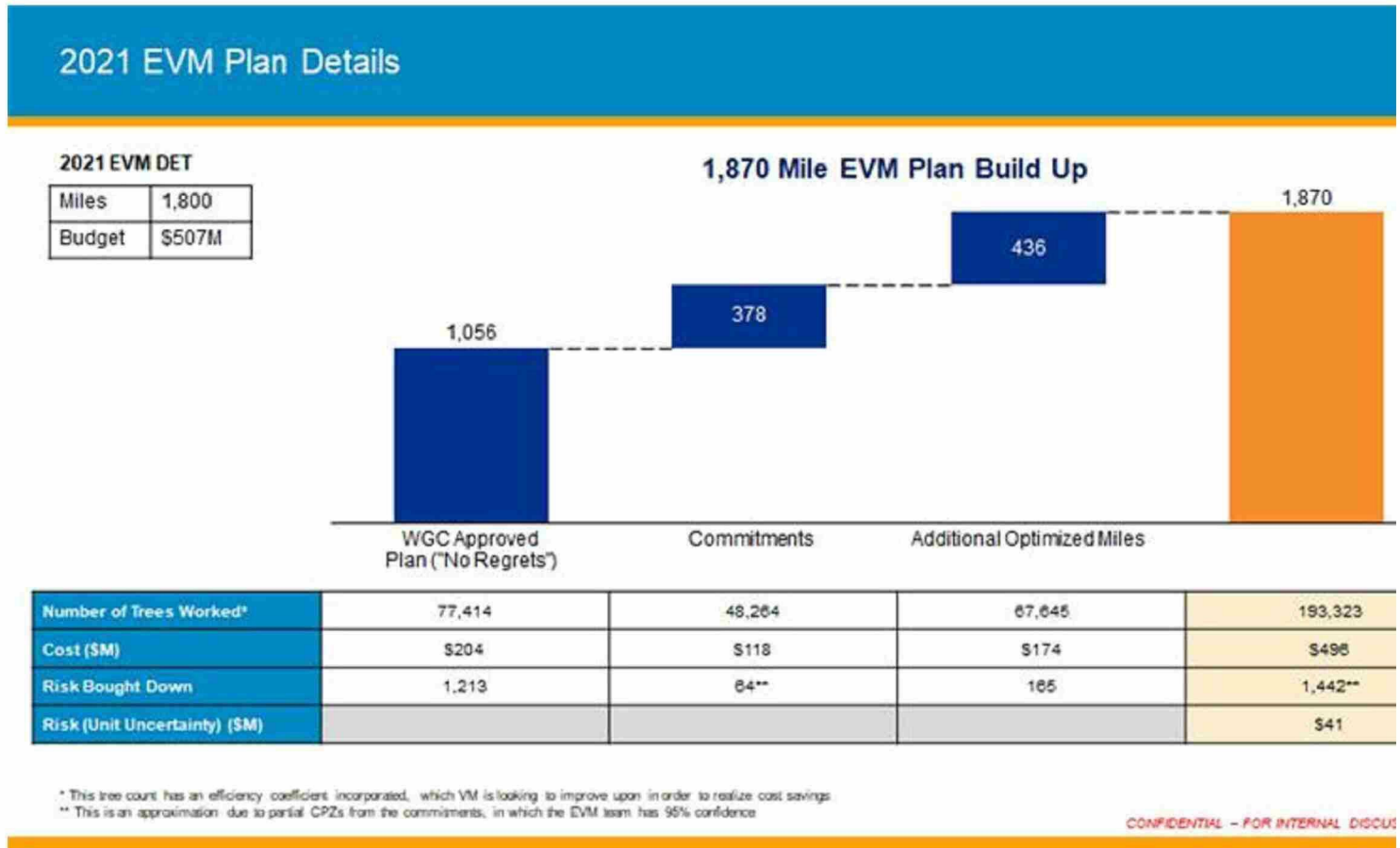
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**From:** [REDACTED]  
**Sent:** Wednesday, April 7, 2021 9:34 AM

To: [REDACTED]  
 Cc: [REDACTED]  
 Subject: RE: EVM Risk Buydown

Thanks for connecting the right folks. If I can get the numbers backing the of the Risk Bought Down (1213, 64, 165) number, that would be a great start. Subsequently, we can feed it into the items discussed in the email thread.

Thanks.



From: [REDACTED]  
 Sent: Wednesday, April 7, 2021 9:17 AM  
 To: [REDACTED]  
 Cc: [REDACTED]  
 Subject: FW: EVM Risk Buydown

This is an outstanding request from the Risk group. I'd like to hand this over to the Performance and Controls team for consistent reporting.

Following the 2017 and 2018 wildfires, some of the changes included in this discussion are contemplated as additional precautionary measures intended to reduce future wildfire risk.

**From:** [REDACTED]  
**Sent:** Tuesday, April 6, 2021 8:40 AM  
**To:** [REDACTED]  
**Cc:** [REDACTED]

**Subject:** RE: EVM Risk Buydown

Why are you requesting this? I am verifying the consistency of how we present risk buydown between EVM and SH. One interest is if we included the full risk buydown or only a percentage, instead of just providing a number. What are you trying to show/illustrate? The main objective is to be able to describe how programmatic RSEs vs project/CS specific risk buydown is interrelated. This is tied to our GRC RSEs on how targeting/prioritizing CS has a higher RSE than plainly across all HFTD.

Can you clarify further your use of the phrase “update”? Is there a date expectation? Plans may be revised so I just wanted to review the latest and greatest

Who is the intended audience? Intended audience is internal first. Potentially, this can be used to justify an increase of RSE due to our targeting/prioritizing efforts. Below is an example of what I did for SH, to represent how much higher targeting the top 20% CS is compared to plainly across HFTD

Thanks,

PZ_i	circuit_protection_zon	feeder_id	feeder_name	Cumulative	Cumulative	\$M Estim	Risk Buydown
10544	OREGON TRAIL 1103CUS39	103521103	OREGON TRAIL 110	1.96	25.81	\$ 0.0	54.2
11024	CALPINE 1144276-G	48011144	CALPINE 1144	3.13	41.14	\$ 0.0	49.3
9665	MARIPOSA 210190130	254452101	MARIPOSA 2101	4.18	54.94	\$ 0.2	6.9
9783	SHEPHERD 2111688294	252062111	SHEPHERD 2111	5.07	66.71	\$ 0.0	36.9
10354	MIDDLETOWN 1103CB	43141103	MIDDLETOWN 110	8.30	109.15	\$ 0.1	38.0
10600	UPPER LAKE 1101CB	42871101	UPPER LAKE 1101	10.63	139.88	\$ 1.8	1.3
8894	KESWICK 11011586	103451101	KESWICK 1101	40.91	538.34	\$ 11.9	2.5
6776	MIDDLETOWN 1102302610	43141102	MIDDLETOWN 110	71.02	934.52	\$ 7.5	4.0
2373	KONOCTI 1102965078	43311102	KONOCTI 1102	103.08	1,356.28	\$ 10.0	3.2
5527	MARIPOSA 2102241564	254452102	MARIPOSA 2102	109.78	1,444.50	\$ 1.1	5.8
7968	BUCKS CREEK 1101CB	102211101	BUCKS CREEK 1101	115.71	1,522.44	\$ 7.7	0.7
10918	DEL MAR 2109378446	152582109	DEL MAR 2109	117.07	1,540.35	\$ 0.2	8.6
6966	MIDDLETOWN 1102CB	43141102	MIDDLETOWN 110	122.46	1,611.30	\$ 0.7	7.2
3511	MIDDLETOWN 1103830	43141103	MIDDLETOWN 110	216.59	2,849.88	\$ 44.4	2.1
9537	POSO MOUNTAIN 2104CB	253642104	POSO MOUNTAIN 2	233.19	3,068.19	\$ 8.6	1.9
10827	INDIAN FLAT 11044440	252691104	INDIAN FLAT 1104	234.89	3,090.59	\$ 0.4	4.5
10242	ELK CREEK 1101CB	102781101	ELK CREEK 1101	235.31	3,096.07	\$ 0.1	3.0
5791	TIDEWATER 210614072	14652106	TIDEWATER 2106	247.46	3,255.95	\$ 5.9	2.0
10735	HARTLEY 1101980662	43211101	HARTLEY 1101	248.65	3,271.66	\$ 0.4	3.2
10532	VACA DIXON 1101126774	63591101	VACA DIXON 1101	252.88	3,327.32	\$ 1.3	3.3
10277	KIRKER 2104442850	14452104	KIRKER 2104	264.31	3,477.72	\$ 9.2	1.2
8742	COARSEGOLD 2104CB	254432104	COARSEGOLD 2104	274.28	3,608.94	\$ 3.9	2.5
8905	MIDDLETOWN 1101118494	43141101	MIDDLETOWN 110	278.61	3,665.80	\$ 1.7	2.5
10515	STAFFORD 1102784704	43201102	STAFFORD 1102	278.96	3,670.40	\$ 0.0	8.0
10181	PEABODY 2108113684	63642108	PEABODY 2108	280.33	3,688.44	\$ 0.6	2.3
7688	PEABODY 2106250154	63642106	PEABODY 2106	281.70	3,706.47	\$ 0.5	3.0
7743	HIGHLANDS 1102628	43361102	HIGHLANDS 1102	299.05	3,934.75	\$ 22.8	0.7
6480	TASSAJARA 21123202	14662112	TASSAJARA 2112	302.04	3,974.20	\$ 0.6	4.7
10043	WYANDOTTE 110932586	102911109	WYANDOTTE 1109	306.97	4,039.04	\$ 2.1	2.3
10052	POSO MOUNTAIN 2103CB	253642103	POSO MOUNTAIN 2	310.17	4,081.15	\$ 3.7	0.8
11090	CALPINE 1146394G	48011146	CALPINE 1146	310.49	4,085.31	\$ 0.0	17.4
10924	CALPINE 1146200-G	48011146	CALPINE 1146	310.80	4,089.47	\$ 0.0	23.1
4828	CRESTA 1101546650	102251101	CRESTA 1101	312.68	4,114.08	\$ 1.4	1.3
9923	CLOVERDALE 110247214	42821102	CLOVERDALE 1102	312.98	4,118.03	\$ 0.0	6.8
8034	MARIPOSA 2102CB	254452102	MARIPOSA 2102	322.04	4,237.31	\$ 8.4	1.0
7873	MARIPOSA 210197142	254452101	MARIPOSA 2101	333.73	4,391.07	\$ 7.4	1.5
4526	VACA DIXON 110540092	63591105	VACA DIXON 1105	468.28	6,161.48	\$ 37.1	3.6
2215	MIDDLETOWN 1101481876	43141101	MIDDLETOWN 110	472.34	6,214.90	\$ 1.4	2.9

From: [REDACTED]  
Sent: Tuesday, April 6, 2021 8:30 AM

To: [REDACTED]

Cc: [REDACTED]

Subject: RE: EVM Risk Buydown

Can you help me understand by answering a few of these questions.

Why are you requesting this?

What are you trying to show/illustrate?

Can you clarify further your use of the phrase “update”? Is there a date expectation?

Who is the intended audience?

[Redacted]

Following the 2017 and 2018 wildfires, some of the changes included in this discussion are contemplated as additional precautionary measures intended to reduce future wildfire risk.

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**From:** [Redacted]

**Sent:** Tuesday, April 6, 2021 7:00 AM

[Redacted]

**Cc:** [Redacted]

**Subject:** RE: EVM Risk Buydown

Including a few others to help potentially solve the case.



[Redacted]

*“Changes included in this email are contemplated as precautionary measures following the 2017 and 2018 wildfires intended to reduce future wildfire risk”.*

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**From:** [Redacted]

**Sent:** Monday, April 05, 2021 6:45 PM

**To:** [Redacted]

**Cc:** [Redacted]

**Subject:** EVM Risk Buydown

[Redacted]

Can you point me to who has access to the ‘Risk Bought Down’ values from the slide below? If there’s a more updated version of the below slide, feel free to point out as well.

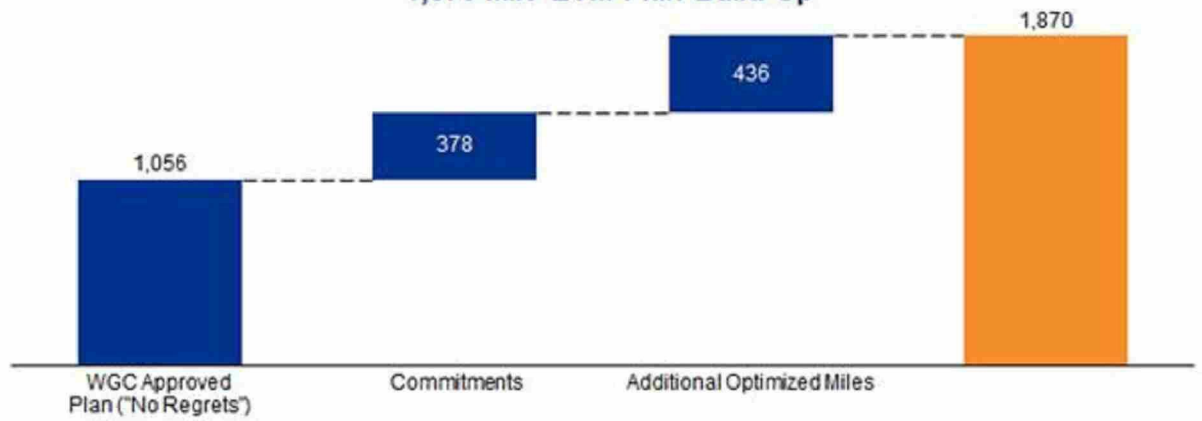
Thanks,  
[Redacted]

# 2021 EVM Plan Details

## 2021 EVM DET

Miles	1,800
Budget	\$507M

## 1,870 Mile EVM Plan Build Up



	WGC Approved Plan ("No Regrets")	Commitments	Additional Optimized Miles	Total
Number of Trees Worked*	77,414	48,264	67,645	193,323
Cost (\$M)	\$204	\$118	\$174	\$496
Risk Bought Down	1,213	64**	165	1,442**
Risk (Unit Uncertainty) (\$M)				\$41

\* This tree count has an efficiency coefficient incorporated, which VM is looking to improve upon in order to realize cost savings.  
 \*\* This is an approximation due to partial CPZs from the commitments, in which the EVM team has 95% confidence.

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