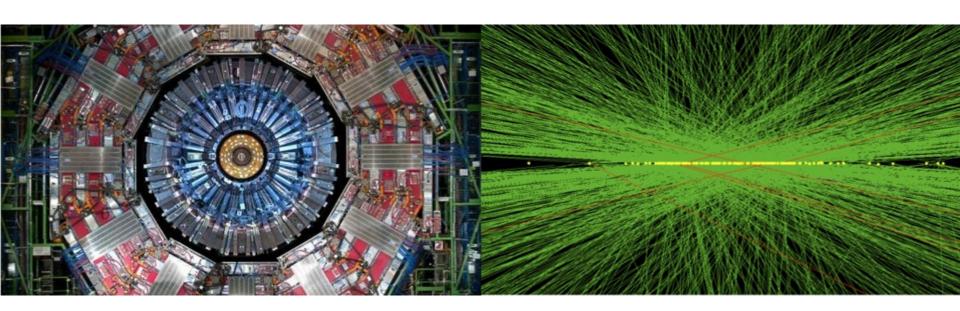


US-MTD: FNAL Group Accounting

Frank Chlebana (MTD Deputy L2 Manager) Fermilab

Jan 27, 2021





Task Codes

The budget is determined from the work plan in P6 FNAL personnel will charge their time to the appropriate task code

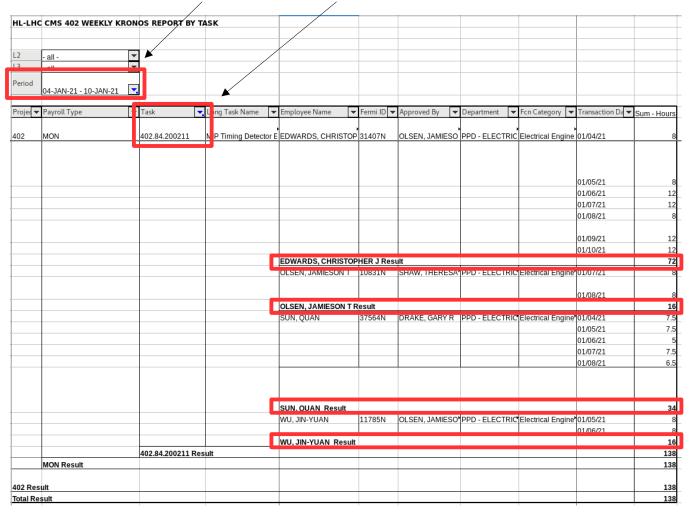
```
ETL-Assembly OPC FNAL Labor
402.84.100311
               ETL-Assembly OPC FNAL M&S
402.84.100312
               ETL-Assembly OPC FNAL Travel
402.84.100313
402.84.200311
               ETL-Assembly MIE FNAL Labor
               ETL-Assembly MIE FNAL M&S
402.84.200312
               ETL-Assembly MIE FNAL Travel
402.84.200313
402.84.100211
               ETL-ASICs OPC FNAL Labor
402.84.100212
               ETL-ASICS OPC FNAL M&S
402.84.100213
               ETL-ASICs OPC FNAL Travel
402.84.200211
               ETL-ASICs MIE FNAL Labor
402.84.200212
               ETL-ASICS MIE FNAL M&S
402.84.200213
               ETL-ASICs MIE FNAL Travel
402.82.100013
               TL-Management OPC FNAL Travel
               TL-Management MIE FNAL Travel
402.82.200013
               TL-Management-CERN-travel
402.82.200003
```



Hours

Jenny sends us a spread sheet that has the hours charged to each task code 402 KRONOS Report 14DEC2020-10JAN2120 BY PI.xlsx

Can filter on the date and task number



Check that the hours charged to our task codes are consistent with expectations

Need to make sure that the work is directly related to the activities we are responsible for



Budget / Actuals (ETL-Assembly)



ControlAccount	WPCTC	WP	08/31/2019	09/30/2019	10/31/2019	11/30/2019	12/31/2019	01/31/2020	02/29/2020	03/31/2020	04/30/2020	05/31/2020	06/30/2020	07/31/2020	08/31/2020	09/30/2020	10/31/2020	11/30/2020	12/31/2020	Total
■ 402.08.04.03 ETL - Assembly			\$25,314.22	\$21,884.87					\$39,843.58	\$33,875.72	\$17,571.01	\$16,854.68	\$38,087.54	\$60,500.23	\$28,998.25	\$28,328.15	\$30,984.00	\$20,135.49	\$35,170.21	\$486,764.80
	□ 402.84.100311 ETL-Assembly OPC FNAL Labor				\$2,399.74	\$4,209.98		\$7,796.54												\$25,458.10
		TL1001049				\$1,591.13		\$1,750.24												\$6,364.53
		TL1001279				\$636.45		\$6,046.30												\$12,729.05
		TL1003530				\$1,982.39	\$1,982.39													\$6,364.53
	■ 402.84.100312 ETL-Assembly OPC FNAL MandS				\$2,655.62															\$2,655.62
		TL1003319			\$2,655.62															\$2,655.62
	■ 402.84.100313 ETL-Assembly OPC FNAL Travel				\$660.54	\$545.67	\$545.67													\$1,751.88
		TL8671			\$347.65	\$287.19	\$287.19													\$922.04
		TL8691			\$312.89	\$258.47	\$258.47													\$829.84
	± 402.84.100391 ETL-Assembly OPC UNIV Labor		-	\$5,077.62	\$7,011.05	\$2,831.88		\$8,124.76											!	\$34,333.56
	402.84.100392 ETL-Assembly OPC UNIV MandS		-	\$15,697.50	\$5,331.66		\$2,665.83												!	\$44,624.99
	± 402.84.100393 ETL-Assembly OPC UNIV Travel		\$1,220.73	\$1,109.76	\$5,364.68	\$2,773.54	\$1,806.29												!	\$12,275.00
	☐ 402.84.200311 ETL-Assembly MIE FNAL Labor							\$2,099.29	\$3,741.72	\$6,032.52		\$5,181.59		\$5,699.75	\$4,963.33	\$2,099.29	\$2,457.50	\$5,024.26	\$5,199.00	\$51,472.94
		TL1001139									\$2,227.58	\$3,182.26	\$954.68						!	\$6,364.53
		TL1001481																\$1,704.16	\$1,704.16	\$3,408.32
		TL1001819							\$1,742.39	\$3,833.26	\$1,393.91								!	\$6,969.55
		TL1002439															\$67.61	\$1,276.58	\$1,343.77	\$2,687.96
		TL1003179												\$3,500.49	\$2,864.04					\$6,364.53
		TL1003530A						\$2,099.29	\$1,999.33	\$2,199.26	\$2,199.26	\$1,999.33	\$2,199.26	\$2,199.26	\$2,099.29	\$2,099.29			!	\$19,093.58
		TL1003540															\$2,389.90	\$2,043.52	\$2,151.07	\$6,584.49
	402.84.200312 ETL-Assembly MIE FNAL MandS																\$2,196.35		\$5,490.89	\$7,687.24
		TL1001482																	\$5,490.89	\$5,490.89
		TL1003329															\$2,196.35			\$2,196.35
	■ 402.84.200313 ETL-Assembly MIE FNAL Travel							\$577.84	\$550.33	\$605.36	\$605.36	\$550.33	\$605.36	\$605.36	\$577.84	\$577.84	\$548.65	\$476.76	\$501.85	\$6,782.88
		TL8671A						\$304.13	\$289.65	\$318.61	\$318.61	\$289.65	\$318.61	\$318.61	\$304.13	\$304.13				\$2,766.12
		TL8672															\$288.76	\$250.92	\$264.13	\$803.82
		TL8691A						\$273.72	\$260.68	\$286.75	\$286.75	\$260.68	\$286.75	\$286.75	\$273.72	\$273.72				\$2,489.51
		TL8692															\$259.89	\$225.83	\$237.72	\$723.44
	± 402.84.200391 ETL-Assembly MIE UNIV Labor						\$1,773.16	\$8,953.67			\$9,141.01	\$9,301.05						\$12,994.20	\$22,251.87	\$167,125.75
	± 402.84.200392 ETL-Assembly MIE UNIV MandS								\$21,326.65					-	\$6,397.99					\$109,938.87
	± 402.84.200393 ETL-Assembly MIE UNIV Travel							\$1,912.81				\$1,821.72							-	
Total			\$25,314.22	\$21,884.87	\$23,423.29	\$10,361.07	\$25,967.56	\$29,464.92	\$39,843.58	\$33,875.72	\$17,571.01	\$16,854.68	\$38,087.54	\$60,500.23	\$28,998.25	\$28,328.15	\$30,984.00	\$20,135.49	\$35,170.21	\$486,764.80

Filter	Cost Set: Actuals	Resu	tts: F-BDN-AYS Columns: ControlAccount; WPCTC; WP	Undata
Filler	CAM: Golf, Frank	From	: 08 / 31 / 2019 🕲 To: 12 / 31 / 2020 🕲	Update

ControlAccount	WPCTC	WP	08/31/2019	09/30/2019	10/31/2019	11/30/2019	12/31/2019	01/31/2020	02/29/2020	03/31/2020	04/30/2020	05/31/2020	06/30/2020	07/31/2020	08/31/2020	09/30/2020	10/31/2020	11/30/2020	12/31/2020	Total
☐ 402.08.04.03 ETL - Assembly				\$3,126.66	5	\$5,692.43	\$2,038.30	\$11,805.57	\$2,963.94	\$260.43	\$16,323.73	\$27,629.89	\$30,481.37	\$7,473.05	\$14,527.04	\$79,180.39	\$30,466.40	\$26,292.42	\$35,450.78	\$293,712.40
	■ 402.84.100302 ETL-Assembly OPC CERN MandS															\$49.22				\$49.22
		402.84.100302														\$49.22				\$49.22
	■ 402.84.100311 ETL-Assembly OPC FNAL Labor					\$5,692.43	\$555.42	\$5,423.02								(\$141.80)				\$11,529.07
		402.84.100311				\$5,692.43	\$555.42	\$5,423.02								(\$141.80)				\$11,529.07
	± 402.84.100391 ETL-Assembly OPC UNIV Labor			\$3,126.66			\$1,253.30			\$260.43	\$13,364.51	(\$2,794.72)		\$4,308.29		(\$41.57)	\$3,844.94	\$3,661.86		\$26,983.70
	■ 402.84.100392 ETL-Assembly OPC UNIV MandS						\$229.58				\$79.01	\$6,128.81	\$11,416.01	(\$9,543.79)	\$7,779.36	\$16,251.10	\$1,713.85			\$34,053.93
	☐ 402.84.200311 ETL-Assembly MIE FNAL Labor							\$6,382.55	\$1,333.00		\$444.33	\$24,295.80	\$19,065.36	\$12,708.55	\$6,541.19	\$63,031.61	\$24,860.30	\$13,188.18	\$8,070.37	\$179,921.24
		402.84.200311						\$6,382.55	\$1,333.00		\$444.33	\$24,295.80	\$19,065.36	\$12,708.55	\$6,541.19	\$63,031.61	\$24,860.30	\$13,188.18	\$8,070.37	\$179,921.24
	■ 402.84.200312 ETL-Assembly MIE FNAL MandS								\$1,630.94		\$2,435.88				\$206.49	\$31.83	\$47.31	\$520.97	\$10,652.45	\$15,525.87
		402.84.200312							\$1,630.94		\$2,435.88				\$206.49	\$31.83	\$47.31	\$520.97	\$10,652.45	\$15,525.87
	■ 402.84.200391 ETL-Assembly MIE UNIV Labor																	\$1,353.88	\$11,655.09	\$13,008.97
	± 402.84.200392 ETL-Assembly MIE UNIV MandS																	\$7,567.53	\$787.39	\$8,354.92
	■ 402.84.200393 ETL-Assembly MIE UNIV Travel																		\$4,285.48	\$4,285.48
Total				\$3,126.66		\$5,692.43	\$2,038.30	\$11,805.57	\$2,963.94	\$260.43	\$16,323.73	\$27,629.89	\$30,481.37	\$7,473.05	\$14,527.04	\$79,180.39	\$30,466.40	\$26,292.42	\$35,450.78	\$293,712.40



Budget / Actuals (ETROC)

Reports on the budget / actuals can be extracted from the CAM eToolbox

CD1 version of the schedule...

Budget

Mathematical busy busy busy busy busy busy busy busy																					
\$\cup \$\cu		WPCTC	WP																		
1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	■ 402.08.04.02 ETL - Frontend ASICs			\$9,110.63				-	-	-	-		\$47,346.50	\$51,281.45	\$59,872.07	\$84,611.87	\$39,216.12	\$30,245.47	\$25,870.75	\$23,313.95	\$629,761.37
1.000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.00000 1.00000 1.00000 1.00000 1.00000 1.0000		■ 402.84.100211 ETL-ASICs OPC FNAL Labor			\$2,106.02	\$50,188.83	\$39,823.75	\$10,365.08	\$11,456.15	\$10,910.62	\$1,091.06										\$125,941.50
Second S					\$2,106.02	\$50,188.83															
Second S							\$545.53			\$10,910.62	\$1,091.06										
\$\ \begin{cases} \begin{cases} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1	■ 402.84.100212 ETL-ASICs OPC FNAL MandS																			
Second S			TL04514																		
94.284.10021 ETLASICA OPUNIVAM 1.0640 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540 1.0540		■ 402.84.100213 ETL-ASICs OPC FNAL Travel				-	-	-	4	4											
1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06506 1.06			TL02110			-		4	******	4											
10.0000		□ 402.84.100291 ETL-ASICs OPC UNIV Labor						\$12,629.02	\$17,705.08	\$16,861.98	\$6,323.24										
TUSSIS NO.525 S. 2.529.39 S. 5.52.55 S. 5.48.19				\$519.29	\$2,596.46	\$3,081.62															
TURSS 1 10455							\$1,257.17	-													
1.0455 5.51.3 5.41.0 5.51.3 5.41.0 5.51.3 5.41.0 5.51.3 5.41.0 5.51.3 5.41.0 5.51.3 5.41.0 5.51.3 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5.41.0 5																					
## 1								\$7,166.34	\$8,852.54	\$8,430.99	\$843.10										
TUMAGE T	1		TL04585	\$8,591.34	\$7,419.80																
TL04610 TL04620 TL04			-											-				\$29,447.86	\$25,179.86	\$21,273.77	-
TL0460												\$1,909.36	\$38,187.15	\$42,005.87							
TL0460															\$8,592.11	\$36,086.86					
TU04735	l			-													\$3,749.28	\$29,447.86	\$25,179.86	-	
## 402.84.200212 ETLASICS MIE FNAL MANDS ## 402.84.200212 ETLASICS MIE FNAL MANDS ## 402.84.200212 ETLASICS MIE FNAL Travel ## 402.84.200213 ETLASICS M																					
TL04512			TL04735																	\$5,784.85	
TL045124		□ 402.84.200212 ETL-ASICs MIE FNAL MandS	W									-									
TL04514A				-																	
TL1008235				-	L	-			-												
## 402.84.200213 ETL-ASICS MIE FNAL Travel ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 ## 102.120 #				-		-			-												
TL0212			IL1008235	-		-			-												
TL1008245			TI 00400	-					-			\$6,638.68									-
## 402.84.200291 ETL-ASICS MIE UNIV Labor \$1,04518 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1,0451.64 \$1				-					-			45 5						\$/97.62	\$690.90	\$/27.26	-
TL04518		E 400 04 000004 ET. 4	111008245	-					-	42.011.5	44 255 5			40.077.7	+0.0=:	40.477	42.75.5			** ***	-
TL04524		== 402.84.200291 ETL-ASICs MIE UNIV Labor	TLOACAG	-					-	\$3,844.20	\$4,228.62	-			\$9,274.09	\$8,428.49	\$3,/71.50			\$1,312.92	
TL04528				-					-	<u> </u>		\$/,174.82	\$8,440.97		40. 274. 05	¢0.000.41				-	-
TL04590				-					-					\$8,009.44	\$9,274.09		42.75.5				
TL04627 S S S S S S S S S S S S S S S S S S S				-					-	42.000	44 855 5					\$419.06	\$3,/71.50				-
TL1003830 \$4,676.82 \$718.38 \$4,789.20				-		-			-	\$3,844.20	\$4,228.62			-						41 373 05	
				-					-			** ***	47							\$1,312.92	-
10tal \$9,110.63 \$12,122.27 \$54,887.98 \$43,899.99 \$24,997.26 \$29,997.66 \$31,901.15 \$11,642.92 \$50,333.33 \$47,346.50 \$51,281.45 \$59,872.07 \$84,611.87 \$39,216.12 \$30,245.47 \$25,870.75 \$23,313.95 \$629,761.37 \$23,213.95 \$23,213.95 \$24,997.26 \$29,907.66 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47 \$30,245.47	T-4-1		111003830		*** *** *	+54 4-5 -	442 055 5	*** ***	+20 0		*** *** *		-		+50 05	-04 68	+20 25 -	+20 2:- :	+05 05: 5:	*** ***	
	TOTAL			\$9,110.63	\$12,122.27	\$54,087.98	\$43,899.99	\$24,997.26	\$29,907.66	\$31,901.15	\$11,642.92	\$50,333.33	\$47,346.50	\$51,281.45	\$59,872.07	\$84,611.87	\$39,216.12	\$30,245.47	\$25,870.75	\$23,313.95	\$629,761.37

Filter	Cost Set:	Actuals •	J	Results	: F-BDN-AY\$ Columns: ControlAccount; WPCTC; WP	Undate
	CAM: Liu	ı, Ted	•	From:	08 / 31 / 2019 🕲 To: 12 / 31 / 2020 🕲	Opuate

Actuals

ControlAccount	WPCTC	WP	08/31/2019	09/30/2019	10/31/2019	11/30/2019	12/31/2019	01/31/2020	02/29/2020	03/31/2020	04/30/2020	05/31/2020	06/30/2020	07/31/2020	08/31/2020	09/30/2020	10/31/2020	11/30/2020	12/31/2020	Total
☐ 402.08.04.02 ETL - Frontend ASICs				\$114,445.24	\$40,929.04	\$120,169.67	\$37,886.48	\$49,234.48	\$38,305.43	\$36,443.71	\$34,043.73	\$37,408.32	\$33,982.58	\$28,500.84	\$41,207.94	(\$119,400.60)	\$32,120.87	\$64,905.80	\$44,079.86	\$634,263.39
	■ 402.84.100211 ETL-ASICs OPC FNAL Labor			\$98,966.20	\$40,929.05	\$120,169.67	\$37,471.66	\$9,344.53	\$3,177.15	\$2,990.26						(\$20,845.15)				\$292,203.37
		402.84.100211		\$98,966.20	\$40,929.05	\$120,169.67	\$37,471.66	\$9,344.53	\$3,177.15	\$2,990.26						(\$20,845.15)				\$292,203.37
	■ 402.84.100213 ETL-ASICs OPC FNAL Travel						\$414.82		\$1,114.16							(\$2.15)				\$1,526.83
		402.84.100213					\$414.82		\$1,114.16							(\$2.15)				\$1,526.83
<i>1</i>	■ 402.84.100291 ETL-ASICs OPC UNIV Labor	1		\$15,479.04	(\$0.01)	'					\$4,328.08	\$4,173.50	\$4,173.50		\$12,520.18	\$15,899.04				\$56,573.33
4		402.84.100291		\$15,479.04	(\$0.01)						\$4,328.08	\$4,173.50	\$4,173.50		\$12,520.18	\$15,899.04				\$56,573.33
4	■ 402.84.200211 ETL-ASICs MIE FNAL Labor							\$39,889.95	\$34,014.12	\$33,453.45	\$29,715.65	\$33,234.82	\$29,809.08	\$28,500.84	\$28,687.76	(\$114,452.34)	\$32,120.87	\$64,238.38	\$42,205.22	\$281,417.80
4		402.84.200211						\$39,889.95	\$34,014.12	\$33,453.45	\$29,715.65	\$33,234.82	\$29,809.08	\$28,500.84	\$28,687.76	(\$114,452.34)	\$32,120.87	\$64,238.38	\$42,205.22	\$281,417.80
4	■ 402.84.200212 ETL-ASICs MIE FNAL MandS	'																\$667.42	\$1,874.64	\$2,542.06
4		402.84.200212																\$667.42	\$1,874.64	\$2,542.06
Total				\$114,445.24	\$40,929.04	\$120,169.67	\$37,886.48	\$49,234.48	\$38,305.43	\$36,443.71	\$34,043.73	\$37,408.32	\$33,982.58	\$28,500.84	\$41,207.94	(\$119,400.60)	\$32,120.87	\$64,905.80	\$44,079.86	\$634,263.39
4																				



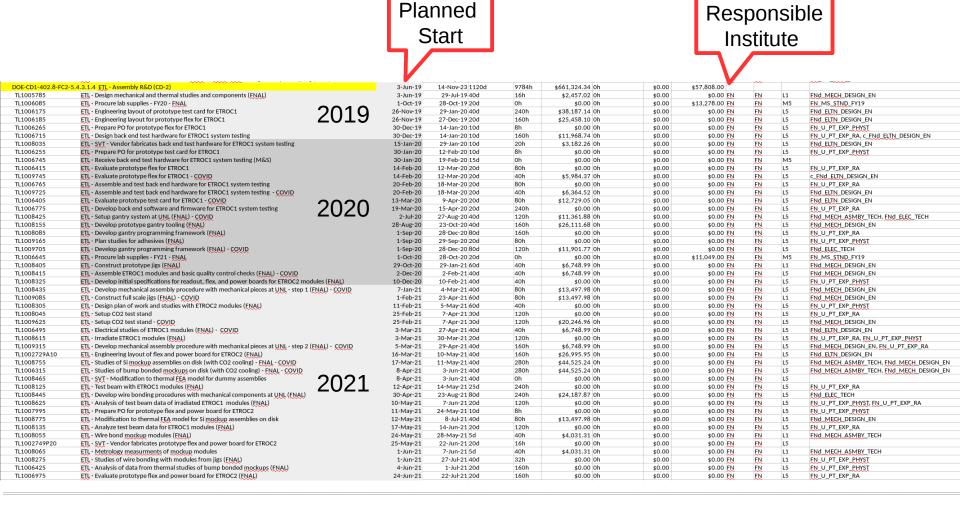
CD1 Budget / Actuals

ETROC				
Budget (up to 12/31/2020)		629,761.37		
Actuals		634,263.39		
SMU (Engineer)		107,813.00		
SMU (Grad Students)		8,088.00		
Total		750164.39		
Difference		-120403.02		
ETL Assembly	Budget		<u>Actuals</u>	Difference
OPC Labor		25,458.10	11,529.07	13,929.03
OPC M&S		2,655.62		2,655.62
OPC Travel		1,751.88		1,751.88
MIE Labor		51,472.94	179,921.24	-128,448.30
MIE M&S		7,687.24	15,525.87	-7,838.63
MIE Travel		6,782.88		6,782.88
Total		95808.66	206976.18	-111,167.52



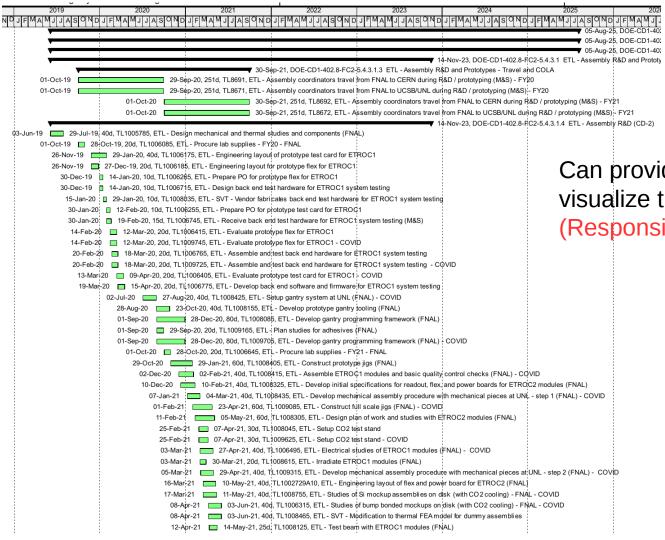
CD2 Schedule (ETL-Assembly)

The work plan is entered in P6 and is used to measure our progress We are currently monitoring progress relative to the CD-1 plan... Extract (and monitor) the activities that we are responsible for in an excel file...





CD2 Activities (BCR-103)



Can provide a Gantt chart to help visualize the sequence of work

(Responsible Institute = FNAL)



CD1 vs CD2 Budget

Activities with a start date < Jan 1, 2021 Responsible Institute = FNAL

Activi	ty ID		Activity Name	Planned	Planned Finish	Planned	Planned	Planned Labor	Planned	Planned	Planned Material
				Start		Duration	Labor	Cost	Nonlabor Units	Nonlabor Cost	Cost
	DOE-	-CD1-402.8-FC2-5 402.8 T	TL - Timing Layer - CD2 Working - 9 December 2020	03-Jun-19	30-Sep-21	587d	3308h	\$266,282.24	0h	\$0.00	\$48,022.41
	Dr	OE-CD1-402.8-FC2-5.4 ET	L - Endcap Timing Layer	03-Jun-19	30-Sep-21	587d	3308h	\$266,282.24	0h	\$0.00	\$48,022.41
		DOE-CD1-402.8-FC2-5.4.3	3 ETL - Assembly	03-Jun-19	30-Sep-21	587d	3308h	\$266,282.24	0h	\$0.00	\$48,022.41
		DOE-CD1-402.8-FC2-5	5.4.3.1 ETL - Assembly R&D and Prototypes	03-Jun-19	30-Sep-21	587d	3308h	\$266,282.24	0h	\$0.00	\$48,022.41
			2-5.4.3.1.1 ETL - Assembly R&D	03-Jun-19	30-Sep-21	587d	1376h	\$97,077.73	0h	\$0.00	\$10,389.90
			2-5.4.3.1.3 ETL - Assembly R&D and Prototypes - Travel and COLA	01-Oct-19	30-Sep-21	503d	0h	\$0.00	0h	\$0.00	\$13,305.51
	AV	+ DOE-CD1-402.8-FC	2-5.4.3.1.4 ETL - Assembly R&D (CD-2)	03-Jun-19	10-Feb-21	424d	1932h	\$169,204.50	0h	\$0.00	\$24,327.00

Activities with a start date < Jan 1, 2021

Acti	vity ID	'	Activity Name	- T	Planned Finish	Planned	Planned	Planned Labor	Planned Nonlabor Units		
				Start	4	Duration	Labor	Cost	Nonlabor Units	Nonlabor Cost	Cost
=	DOE-	-CD1-402.8-FC2-5 402.81	L - Timing Layer - CD2 Working - 9 December 2020	01-Oct-18	15-Mar-21	614d		\$1,505,083.95	15029h	\$442,060.10	\$99,986.82
=	DC	OE-CD1-402.8-FC2-5.4 ETL	L - Endcap Timing Layer	01-Oct-18	15-Mar-21	614d	9754h	\$1,505,083.95	15029h	\$442,060.10	\$99,986.82
		DOE-CD1-402.8-FC2-5.4.2	2 ETL - Frontend ASICs	01-Oct-18	15-Mar-21	614d	9754h	\$1,505,083.95	15029h	\$442,060.10	\$99,986.82
	+	DOE-CD1-402.8-FC2-5	5.4.2.1 ETL - Frontend ASICs General	01-Oct-18	12-Feb-21	593d	0h	\$0.00	0h	\$0.00	\$22,889.10
	+	DOE-CD1-402.8-FC2-5	5.4.2.2 ETL - Frontend ASICs v1 development (Off Project)	01-Oct-18	29-Jun-20	438d	0h	\$0.00	0h	\$0.00	\$0.00
	+	DOE-CD1-402.8-FC2-5	5.4.2.3 ETL - Frontend ASICs v2 development	01-Oct-18	15-Mar-21	614d	4082h	\$637,204.16	7847h	\$210,682.39	\$44,348.52
	+	DOE-CD1-402.8-FC2-5	5.4.2.5 ETL - Frontend ASICs v2 development (CD-2)	01-Oct-18	26-Feb-21	603d	5672h	\$867,879.78	7182h	\$231,377.71	\$32,749.20

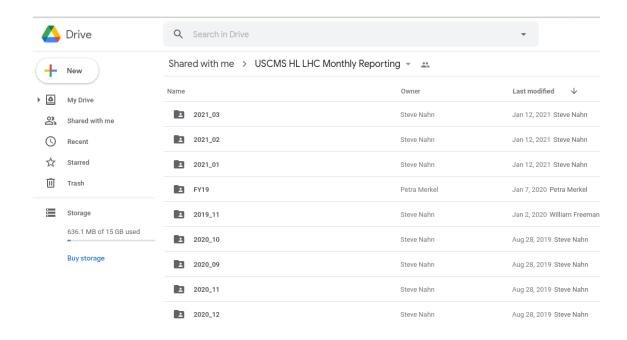
ETL-Assembly R&D	CD1	CD2	CD2-CD1
Labor	\$97,077.73	\$169,204.50	\$72,126.77
University	\$0.00	\$0.00	\$0.00
M&S	\$10,389.90	\$24,327.00	\$13,937.10
Total	\$107,467.63	\$193,531.50	\$86,063.87
ETROC v2			
Labor	\$637,204.16	\$867,879.78	\$230,675.62
University (SMU)	\$210,682.39	\$231,377.71	\$20,695.32
M&S	\$44,348.52	\$32,749.20	-\$11,599.32
Total	\$892,235.07	\$1,132,006.69	\$239,771.62



Turnaround Report

Turnaround reports are located in the google doc folders

https://drive.google.com/drive/folders/0B7zLbbgoJYKyTXpwY3MycE9aeU0



After we fill out the turnaround report the PO will generate reports to calculate the project performance metrics

Results used to update the working schedule to see the impact on future activities...



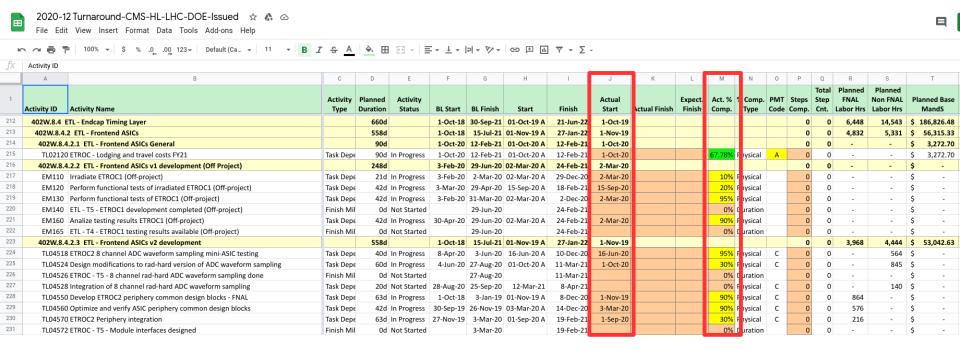
Turnaround Report

Each month we have to fill out the turnaround report and indicate progress on the activities that are scheduled to start in the current reporting period

Indicate actual start date, percent complete.

Estimate start date for activities we know will be delayed

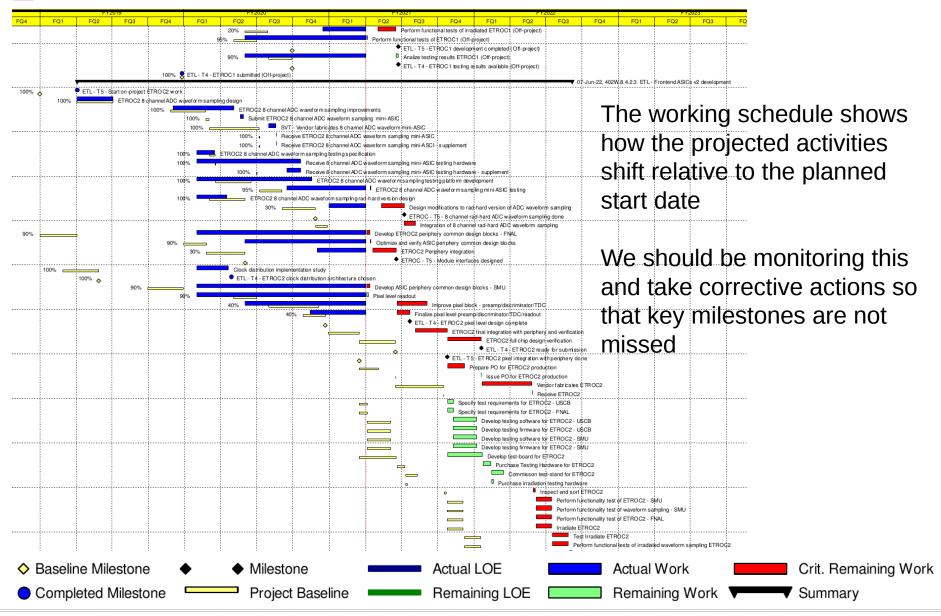
Progress used to update the working schedule, which will then shift dependent activities Reports are generated which show how the activities / milestones are shifted...



Measures the technical progress
Costs are determined through invoicing / actuals



Working Schedule





What is our budget (CD1 vs CD2) What have we spent so far

Review hours assigned to the task codes Monitor the technical progress on the activities we are responsible for Estimate remaining effort needed to complete assigned work

Review planned work in the near future Evaluate projected schedule shifts

Determine CPI, SPI Review variance reports