

C1PPMMA119	Minor Add Middleware ESB EAI Conv	The purpose of this project is to capture the capital costs to consolidate Enterprise Application Integration (EAI) and Enterprise Service Bus (ESB) platforms into a single platform capable of meeting all integration needs, thus eliminating technology redundancies and creating an Enterprise-grade next generation platform capable of providing high speed transaction and messaging capabilities. This new platform will be used by all Entergy functions, including distribution.
C1PPC23INT	Outsource Copy Centers	The purpose of this project is to capture the capital costs of outsourcing Entergy's current copy center. This project will implement RSA WebCRD secure webbrowser ordering and fulfillment system for in-plant print operations of all sizes. The copy center is utilized by all Entergy functions, including distribution.
C1PPU02INT	GDT Performance Upgrade	The purpose of this project is to capture the capital costs associated with implementation of graphical design tool enhancements.
C1PP094INT	CBLE - PowerPlan Lessee Accounting	The purpose of this project is to capture the capital costs related to the upgrade of the asset management system in order to comply with the new accounting standard (ASC 842). This system is used by all Entergy functions, including distribution.

C1PP49INT1	SW1-EDE-Bill Syst Contr Repo Integ	The purpose of this project is capture the capital costs related to the upgrade of the billing management system to ensure that the rates being used are correct. This system is used to prevent revenue loss by ensuring rates are correct. This will be used by all Entergy functions, including distribution.
C1PPF082RE	HR Reporting	The purpose of this project is to capture the capital costs related to replacing the current Human Resources (HR) reporting system. The new system will integrate with the newly replaced Enterprise Resource Planning (ERP) tool. HR supports all Entergy functions, including distribution.
C1PP090INT	Infra Disaster Recov Automation	The purpose of this project is to capture the capital costs to automate some automate Information Technology (IT) tasks. IT supports all Entergy functions, including distribution.
C1PPIX05A	Automation Anywhere	The purpose of this project was to capture the capital costs of implementing a program to eliminate manual work of processing transactions and data manipulation to allow more time for analytic decision making to support our stakeholder needs. Automation is a multi-year strategic program where the foundational phase of Robotics Process Automation will focus to relieve the pressure on costs and revenue and to improve quality/speed/scalability. These automation processes will be used by all functions in Entergy, including Entergy Texas Distribution Operations.

C6PPT59INT	ETX-2018 Reg. Rate Development	The purpose of this project is to capture capital costs associated with updates made to CCS (Customer Care System) due to rate and regulatory mandated changes. Throughout the year, there are numerous CCS rate and regulatory mandated changes that must be made in order to keep the company in compliance with the payment of franchise fees, sales taxes, and other regulatory mandated items. This project implements the monthly regulatory rates for 2019. These are mandatory changes that must be implemented according to schedule in order to comply with regulatory requirements. All departments of Entergy utilize CCS, including Entergy Texas Distribution Operations.
C1PPCF082P	Core HR (Payroll/ESS/MSS/Benefits)	The purpose of the project is to capture the capital costs associated with replacing the core HR (payroll, shared services, benefits) Enterprise Resource Planning (ERP) systems with a latest technology, fully integrated ERP solution. This project will focus on the replacing the core HR systems. The HR function supports all of the Entergy functions, including distribution.
C1PP020INT	Upgrade IPS Logility-2018	The purpose of this project is to capture the capital costs to upgrade the Inventory Planning System (IPS) architecture. This upgrade will combine application functionality on a web-based system that will allow for easier maintenance and configuration. This system will be used by all Entergy functions including the distribution function.

C1PPCF082T	Source to Pay	The purpose of the project is capture the capital cost to replace the PeopleSoft systems that manage the source to pay (Accounts Payable / eSupplier / eSettlement) process to integrate with the newly replaced Enterprise Resource Planning. This is used to support all Entergy functions, including distribution.
C1PPODLINT	Oracle Database Lifecycle Mgmt	This project will capture the capital costs to and implement Database Lifecycle Management (DBLM) tools. These tools will allow Entergy, including distribution, to enforce standard patterns for deploying Oracle Databases, as well as support the entire lifecycle of an Oracle databases from configuration management , configuration drift, patch management, etc.
C1PPTAMSWZ	EAM - Meters - Software	The purpose of the project is to capture capital costs of Advanced Metering Infrastructure (AMI). This project delivers the Information Technology Systems and Infrastructure which includes the software, software licenses, IT hardware and its associated vendor costs and internal Entergy labor for the meter management software, head-end system, Meter Data Management System (MDMS), Enterprise Service Bus (ESB), Legacy Systems Integration, and the IT portions of Distribution Management System (DMS)/ Outage Management System (OMS) and the AMI part of the Enterprise Asset Management (EAM) system. These systems will be utilized by Entergy Texas Distribution Operations.

ENTERGY TEXAS, INC.  
PUBLIC UTILITY COMMISSION OF TEXAS  
DOCKET NO. 50714

Response of: Entergy Texas, Inc.  
to the First Set of Data Requests  
of Requesting Party: Commission Staff

Prepared By: John Bearden  
Sponsoring Witness: Allison Lofton  
Beginning Sequence No. WG19  
Ending Sequence No. WG19

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Question No.: STAFF 1-7

Part No.:

Addendum:

Question:

For the intangible and general plant categories listed above, please provide the FERC accounts in which the amounts are booked.

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Response:

The amounts charged to the project codes in the intangible category are recorded to FERC account 303 - Intangibles. The amounts charged to the project codes in the general plant category are recorded to the following FERC accounts: 391.1 - Office Furniture and Equipment, 391.2 - Information Systems, 391.3 - Data Handling Equipment, 397.1 - Miscellaneous Communication Equipment and 397.2 - Communication and Microwave Equipment.

See file labeled "Sch. B-1 Distribution Plant Workpaper" that was included in the Company's application. The details for the intangible project codes can be found on tab "Int Orig Data" and the general plant details are in tab "GP Original Data." In both tabs, the FERC account is in column (F) labeled "Utility Account" and the project code is in column (J) labeled "Act Work Order Number".

ENTERGY TEXAS, INC.  
PUBLIC UTILITY COMMISSION OF TEXAS  
DOCKET NO. 50714

Response of: Entergy Texas, Inc.  
to the First Set of Data Requests

of Requesting Party: Commission Staff

Prepared By: David A. Richard  
Sponsoring Witness: David A.  
Richard/Allison P. Lofton  
Beginning Sequence No. WG21  
Ending Sequence No. WG21

Question No.: STAFF 1-8

Part No.:

Addendum:

Question:

Please provide a complete and detailed explanation regarding why ETI has included the following spare transformers in this DCRF application.

DCRF Number	Project	Project Description
C6PPDB0091		ETI: Purch (1)138x69-34.5kV   50MVA
C6PPDB0161		ETI: Spare 138x69-34.5   25MVA
C6PPDB0124		ETI: Purch 138-13.8   10.5MVA LTC

Response:

Please see attached. Spare distribution transformers are properly included in Account 362 in accordance with FERC guidance.<sup>1</sup> Spare transformers are critical to distribution plant operations and are associated with specific plant in service. The spares are for large station transformers and are not subject to normal periodic replacements

<sup>1</sup> FERC Docket No. OA97-237-012 (NEPOOL and ISO-NE), (December 22, 2003).

**Staff 1-8 Please provide a complete and detailed explanation regarding why ETI has included the following spare transformers in this DCRF application.**

Project Category	DCRF Project (Work Order) Number	Work Order Description	Function Class	Activity Cost	Distribution DCRF Amount	Detailed Description
PSV021 - Substation Failure Replacements	C6PPDB0091	ETI' Purch (1)138x69-34 5kV   50MVA	Distribution Plant	904,212	904,212	The purpose of this project was to capture the capital costs associated with purchasing a new 138 x 69 - 34 5kV 50MVA LTC distribution transformer, as part of the ETI spare emergency fleet of distribution transformers stored in ETI's territory, to replace the spare transformer used for the failure of a transformer located at ETI's New Caney substation.
PSV021 - Substation Failure Replacements	C6PPDB0161	ETI Spare 138x69-34 5   25MVA	Distribution Plant	781,792	781,792	The purpose of this project was to capture the capital costs related to the purchase of a new 138 x 69 - 34.5kV 25MVA LTC distribution transformer, as part of the ETI spare emergency fleet of distribution transformers stored in ETI's territory, to replace the spare transformer transferred to and used at ELL's Brady Heights substation
PSV021 - Substation Failure Replacements	C6PPDB0124	ETI Purch 138-13 8   10 5MVA LTC	Distribution Plant	669,008	669,008	The purpose of this project was to capture the capital costs associated with purchasing a new 138-13 8kV 10 5MVA LTC distribution transformer, as part of the ETI spare emergency fleet of distribution transformers stored in ETI's territory, to replace the spare transformer used for the failure of a transformer located at ETI's Parkway substation.

**Weather Adjustment Calculation**  
**Residential**

	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19
<b>Model Variables</b>												
CONST	25.2880126	25.2880126	25.2880126	25.2880126	25.2880126	25.2880126	25.2880126	25.2880126	25.2880126	25.2880126	25.2880126	25.2880126
Interactive MMM_HDD60	1.9627157	1.7842434	1.7807329	0.9324723	-	-	-	-	-	-	1.5149127	1.9090680
Interactive MMM_CDD65	-	-	-	0.8476864	1.1351097	1.5216724	1.7389578	1.7769987	1.7985180	1.5639040	0.9860383	-
AR(1)	0.4688782	0.4688782	0.4688782	0.4688782	0.4688782	0.4688782	0.4688782	0.4688782	0.4688782	0.4688782	0.4688782	0.4688782
<b>Model Data</b>												
HDD60	197.23	213.25	139.26	75.42	-	-	-	-	-	-	93.01	164.51
CDD65	-	-	-	120.97	251.14	470.53	538.48	565.94	591.35	459.53	169.53	-
NHDD60	285.30	246.77	148.92	52.44	-	-	-	-	-	-	43.03	162.01
NCDD65	-	-	-	135.47	241.42	427.76	547.58	564.62	532.76	380.29	196.44	-
Days - Predicted	33	30	30	29	30	31	30	30	31	30	28	30
Days - Simulated	33	30	30	29	30	31	30	30	31	30	28	30
Customers	398,967	398,116	399,110	401,023	400,900	401,047	403,046	403,395	400,955	405,648	405,234	403,793
<b>Calculation</b>												
Predicted Usage per Customer per Day	37.50	38.50	34.06	31.66	35.36	49.06	56.81	59.34	60.53	49.50	36.67	36.38
Simulated Usage per Customer per Day	42.75	40.50	34.64	31.35	34.99	46.94	57.34	59.26	57.09	45.40	34.93	36.22
Weather Adjustment UPC per Day	5.24	2.00	0.58	(0.31)	(0.37)	(2.12)	0.52	(0.08)	(3.45)	(4.09)	(1.74)	(0.16)
Weather Adjustment UPC	172.87	59.79	17.21	(9.13)	(11.04)	(65.08)	15.82	(2.34)	(105.38)	(123.92)	(49.19)	(4.77)
Weather Adjustment in KWh	68,970,682	23,804,921	6,868,103	(3,660,665)	(4,424,312)	(26,101,360)	6,377,251	(944,964)	(42,253,379)	(50,268,629)	(19,931,438)	(1,928,049)
Weather Adjustment in MWh	68,971	23,805	6,868	(3,661)	(4,424)	(26,101)	6,377	(945)	(42,253)	(50,269)	(19,931)	(1,928)
Exhibit KS-1 Column [10]	68,971	23,805	6,868	(3,661)	(4,424)	(26,101)	6,377	(945)	(42,253)	(50,269)	(19,931)	(1,928)



DCRF Project Number	Project Description	Explanations
C1PPDW0885	Enterprise Analytics	This project captures capital costs related to the enterprise analytics roadmap and implementation strategy. Enterprise analytics proactively uses relevant data and systematic processes to create valuable insights, generate actions to improve operations, and analyze possible future outcomes. It can be used to aid in the planning and strategy process across the entire organization, including distribution.
C1PPGMDL01	SW-Grid Modernization Data Lake	This project captured the capital cost for the grid Modernization data lake; which will provide the initial platform and access to various data sources in support of the Enterprise Asset Management project. The Data Lake will be used to provide the operational and descriptive analytic reporting in support of the Enterprise Asset Management.
C1PPINT059	Application Containerization	This project captures the capital costs to migrate all applications, including those used by distribution, which are currently on Windows Server 2000 and 2003 to a supported container using specialized software where they can be fortified to reduce the security risk to Entergy. This project will also create an Amazon Web Services (AWS) landing zone utilizing an experienced vendor. This will be utilized by all Entergy functions, including distribution.

		<p>hardware, software, and consulting services necessary to implement the Substation Design Automation solution. An Enterprise Business Agreement with Autodesk along with the purchase of the Substation Design Suite (SDS) with Autodesk business partner, Spacial Business Systems (SBS) as the central solution providers will be finalized which leverages them as a partner in the successful implementation of a two-phased solution:</p> <p>Phase 1: Develop and control standards + Deploy New Hardware &amp; Design Software</p> <p>This is the phase for developing base data on which the design automation system will be built.</p> <p>(1) The project develops an accurate Bill of Materials and Equipment standards list. Once the capability is present, the design tools can interact with that data for use in design.</p> <p>(2) Update and organize related equipment drawings for the standard equipment.</p> <p>(3) Develop mapping between the company's standard pieces of equipment and the Retirement Units (RUs) used by other parts of the company for various financial analyses.</p> <p>- Deploy the following products to enable design with modern tools:</p> <p>SDS for Inventor, SDS for Electrical, AutoCAD Electrical, Product Design Manufacturing Collection, Civil 3D, Vault,</p>
C1PP081INT	CBLE-Substation Design Automation	
C1PPSNOINT	Service Now Expansion-2018	<p>This project captures the capital costs associated with purchasing the software for the Service Now platform, to serve all Entergy, including distribution, including distribution, which we currently license.</p>

C1PP274INT	SW - Mainframe Replatforming	<p>This project captures the capital costs associated with replatforming the mainframe computer used by Entergy, which includes distribution. The scope includes the following: Analysis and documentation of all current mainframe programs, databases, storage, scheduling, and interfaces; creation of new Virtual Machine (VM) instances in current VMWare environment and install TmaxSoft software; migration of programs, databases, storages, schedule, and interfaces from mainframe to VM instances; testing of individual programs and end to end solution; tuning of servers and software for optimal performance; and retirement of original mainframe software.</p>
C1PPAMDVSW	EAM - Asset Collection / Validation	<p>This project captured the capital costs related to the verification and correction of asset records. This validation of asset data is part of Enterprise Asset Management (EAM) project. The EAM project seeks to install and integrate systems to manage the asset and replace records of all distribution, gas, and transportation fleet assets. The use of accurate and verified data is essential to the execution of the integrated system installed through the EAM project.</p>

C6PPAMCETI	EAM Conflation - TX	This project captured the capital costs related to the conflation of Entergy Texas's asset records. Conflation is the shifting of data on outdated maps such that it displays as GPS accurately. This validation and subsequent conflation of asset data is part of Enterprise Asset Management (EAM) project. The EAM project seeks to install and integrate systems to manage the asset and replace records of all Distribution, gas, and transportation fleet assets. The use of accurate and verified data is essential to the execution of the integrated system installed through the EAM project.
C1PP285ESI	2019 - UNIX-Linux Ser. and OS Ref.	This project captures capital costs associated with the annual refresh of UNIX and Linux server hardware environments based on a 5-7 year refresh cycle. The scope also includes computing (CPU and Memory) capacity expansion and migration to supported operating systems.
C1PPDYNTRC	2019 Dynatrace License Purchase	This project will capture capital costs related to the expansion of our Application Performance Monitoring (APM) tool, which is software to detect and diagnose complex application performance problems to maintain an expected level of service. This included purchasing and applying several hundred additional licenses.
C1PPX053IN	EndPoint Protection - Software	This project will capture costs associated with software implementation to strengthen endpoint protection on the IT network. The IT network is used by all Entergy functions, including distribution.

C1PP20INT1	Learning Management	This project captured the capital costs to replace the WebTap training application used across the Entergy corporation, including distribution, with the “cloud” based solution.
C1PPEAMGIS	EAM/WFMS - EPOCH GIS Software and L	This project captured the cost related to the software purchase cost and Geospatial Information System data, that allows overlaying and viewing of distribution line facilities.
C1PP283INT	2019 Peoplesoft PUM INT WO	This project captured the capital costs to implement the PeopleSoft Update Manager Program to allow Entergy to take advantage of scheduled PeopleSoft updates and to plan for the People Tools upgrades and infrastructure refreshes, as necessary to maintain a current environment and minimize risk. The program aligned with the following principles: implement a single dominant ERP system, remain on a supported environment and streamline and facilitate end to end processes. Implementing the PeopleSoft Update Manager updates along with upgrading PeopleTools lengthens the life of PeopleSoft and ensures that all PeopleSoft applications include minor updates and enhancements that are available. Using the PeopleSoft Update Manager updates will allow Entergy Texas to tailor the updates and implement bug fixes and patches as needed, or wanted, in the system. These updates enrich the user experience and add new functionality to the systems.

C1PP519INT	Spatial Load Forecasting Platform	This project is to implement an industry adopted load forecasting application to replace the existing manual tool used by Distribution Planning. This application will be used for day-to-day Distribution planning function and scenario planning. In addition, the plan for the tool is to be used in supporting regulatory filings related to distribution. The new application offers many advanced capabilities and pulls from numerous data sources to produce the most accurate models and forecast. With highly accurate models, capital projects will be proposed more effectively to address customer and system issues, to deliver reliable and affordable power to customers
C1PP308S00	SW-Remote Content Filtering for Clo	This project captures the capital costs to replace our current obsolete on site data loss prevention (DLP) software, with a new cloud data loss prevention product that enforces Entergy Texas' policies in a cloud environment. DLP solutions aim to prevent sensitive data and confidential information from being stored, used, or transferred insecurely.
C1PP082INT	Software - TSAT-VSAT	This project will capture the capital costs related to the software costs of implementing Powertech DSA (Dynamic Security Assessment) Tools software that will continuously run transient and voltage stability analysis studies in real time, including procurement of new software licenses, purchase and installation of new servers and related hardware to support the new software, and integration of the tool. This tool will be utilized by all of Entergy, including Entergy Texas Distribution Operations.

C1PP144INN	Rate Admin and Customer Load 2018	The purpose of this project was to automate the data conversion process to get raw billing information into the corporate planning system. The planning system is used by all functions in Entergy, including Distribution.
C1PP294S00	2019 SQL and Oracle Database Refre.	The purpose of this project was to capture the capital costs to maintain selected Entergy databases on a technology platform that is, at least, covered within the extended support offerings of the vendor. These databases are used by all Entergy functions, including Distribution Operations.
C1PPLHRSFW	BCG Reliability Software Costs	The purpose of this project is to increase the efficiency and capabilities of designing Distribution substations while integrating automation functionality. The scope of this project includes the purchase of hardware and software and the contract services necessary to implement a multi-phase Substation Design Automation solution with the first phase the purchase and deployment of the hardware and software and a second phase integration with other existing systems.

C1PPBTA191	RPA: Automation Anywhere	The purpose of this project was to capture the capital costs of implementing a program to eliminate manual work of processing transactions and data manipulation to allow more time for analytic decision making to support our stakeholder needs. Automation is a multi-year strategic program where the foundational phase of Robotics Process Automation will focus to relieve the pressure on costs and revenue and to improve quality/speed/scalability. These automation processes will be used by all functions in Entergy, including Entergy Texas Distribution Operations.
C1PP235INT	HANA 2.0 UPGRADE	The purpose of this project is to capture capital costs associated with upgrades made to Hewlett Packard appliances OS. All databases will be upgraded to HANA 2.0's latest support packs. Separate HANA 2.0 cockpit will be established for DB administration. The systems will be integrated with The systems will be integrated with Solution Manager as required for monitoring. All the GRC systems will be migrated to HANA DB and tested.



C6PP062ETI	TX-15260-FP-Regulatory Rate Develop	The purpose of this project is to capture capital costs associated with updates made to CCS (Customer Care System) due to rate and regulatory mandated changes. Throughout the year, there are numerous CCS rate and regulatory mandated changes that must be made in order to keep the company in compliance with the payment of franchise fees, sales taxes, and other regulatory mandated items. This project implements the monthly regulatory rates for 2019. These are mandatory changes that must be implemented according to schedule in order to comply with regulatory requirements. All departments of Entergy utilize CCS, including Entergy Texas Distribution Operations.
C1PPAMCOS1	EAM- Conflation Software- ESI	The purpose of this project is to capture the capital costs associated with the Enterprise Asset Management (EAM) systems for EAM Conflation and Data Validation. EAM will be an integrated system to manage the asset, renewal, and replacement records of all distribution fleet assets.
C1PP091INT	SW-P2R Database Replatform	The purpose of this project was to capture the capital costs associated with the re-platform the P2R database in order to provide a stable environment and allow for future growth of the application and for the upgrade of Microsoft SQL Server to 2016 and the purchase of 96 additional Microsoft Core SQL Licences. P2R is used by all Entergy functions, including Entergy Texas Distribution Operations.

C1PPU12INT	EDE-myEbusiness Enhancements	associated with implementing functional enhancements into myEBusiness. myEBusiness is for large power billings and this enhancement will provide them a way to pay online and streamline payment receipts. This will benefit Entergy as a whole, including Entergy Texas
C1PPBTU191	RPA: Utility Operations	The purpose of this project is to capture costs associated with the Robotics Process Automation (RPA) initiative which involves creating software programs to replace manual processes for the Entergy Utility Operations (Ops) Department including distribution ops.
C1PP0INT32	Masking Software	The purpose of this project was to capture capital costs associated with improving Entergy's security posture of its databases. Entergy plans to implement transparent data encryption for databases. This project also implements data masking for non-production databases. This project is applicable to all Entergy databases, including those that serve Entergy Texas Distribution Operations.
C1PP310INT	SW-P2R Server Upgrade and Refresh	The purpose of this project is to capture the capital costs associated with the purchase and installation of 2 maintenance licenses for software on the Development (DEV) servers used for the Plan To Report (P2R) system which serves all Entergy companies and functions including planning and forecasting distribution investments as well as preparation of the Distribution Cost Recovery Factor.

C1PPINT057	Entergy_com Replatform with ZMS	costs to re-platform entergy.com to a cloud-hosted Content Management System (CMS). This will alleviate concerns about known security vulnerabilities with the existing infrastructure, and provide a mobile-friendly browsing experience for customers and stakeholders. This will benefit all of Entergy, including Entergy Texas Distribution Operations.
C1PP088IN3	Project CIRCE 2019	The purpose of this project was to capture the capital costs associated with implementing an enterprise Governance, Risk, and Compliance (eGRC) tool. This tool will help standardize processes across all of Entergy, including Entergy Texas Distribution.
C1PP088IN2	CIRCE Rel 2.1 2018	The purpose of this project was to capture the capital costs associated with implementing an enterprise Governance, Risk, and Compliance (eGRC) tool. This tool will help standardize processes across all of Entergy, including Entergy Texas Distribution.
C1PP266INT	Multi-factor Authentication for Rem	The purpose of this project is to capture the capital costs associated with safeguards against cyber threats, by expanding Multi-Factor Authentication (MFA) for users that travel or require remote access to critical applications. This tool will be used by all Entergy employees who require it, including Entergy Distribution employees.
C1PP021SW1	SW1- Windows 10 Upgrade	The purpose of this project is to capture the capital costs associated with the purchase of the software to support Entergy's move to the Windows10 Operating System.

C1PP119INT	Middleware - Consolidation & API Mg	The purpose of this project is to capture the capital costs of upgrading/migrating integrations from existing platforms to a consolidated platform. The integrations are used by all Entergy functions, including Entergy Texas Distribution.
C1PPAMESRI	EAM/WFMS - ESRI GIS Software an	The purpose of this project is to capture the capital costs related to the purchase of new Geospatial Information System data. This will be used with maps to overlay the location of assets, including distribution assets, for use by Entergy Texas employees.
C1PP021SW2	SW2-Windows 10 Upgrade	The purpose of this project is to capture the capital costs associated with the purchase of the software to support Entergy's move to the Windows10 Operating System.
C1PP032INT	Encryption Software	The purpose of this project was to capture capital costs associated with improving Entergy's security posture of its databases. Entergy plans to implement transparent data encryption for databases. This project will also implement data masking for non-production databases. This project is applicable to all Entergy databases, including those that serve Entergy Texas Distribution Operations.
C1PPBTF191	RPA: Finance	The purpose of this project is to capture costs associated with the Robotics Process Automation (RPA) initiative which involves creating software programs to replace manual processes for the Entergy Finance Department. The Entergy Finance Department supports Entergy Texas Distribution.

C1PP291RL3	SPO-PCI Biannual Prod Rel 3 2019	The purpose of this project is to capture the capital costs associated with the installation, configuration, testing and deployment of PCI Release 3 software that is used for the scheduling and dispatching of Entergy and customer-owned facilities including those tied to the Entergy distribution system.
C1PPTDASWZ	DA - Software Install and Labor	This project captured the capital costs associated with the installation, configuration, testing and deployment of the ITRON Gridscape 2.3 software system to track device deployment as part of the Distribution Automation initiative.
C1PPPOINT89	SW-BI Tools Upgrade & Exp. 18 PH 2	The purpose of this project was to capture the capital costs associated with the upgrade of older versions of the Cognos software to the latest versions in multiple phases. Along with the upgrade effort, this project will also enable BI Self-service to give the power of the tool and data in the hands of the business users. Cognos is used by all Entergy employees, including Entergy Texas Distribution employees.
C1PPINT034	Informatica-2018	The purpose of this project was to capture the capital costs of updating the bulk data migration tool in use by all Entergy Functions. The current version is no longer supported by the vendor.

C1PPICX066	15780-ITRON-FCS Upgrade	The purpose of this project was to capture the capital costs related to the upgrade of the application used for electric meter readings to a newer version which is compatible with the Entergy Windows 10 environment. These amounts are not included in the AMS surcharge.
C1PPBTS191	RPA: Supply Chain	The purpose of this project is to capture costs associated with the Robotics Process Automation (RPA) initiative which involves creating software programs to replace manual processes for the Entergy Supply Chain Department. The Supply Chain function supports all Entergy functions, including Entergy Texas Distribution Operations.
C1PP028INT	Corp Privileged Access Mgmt Upg	The purpose of this project was to capture the capital costs associated with the upgrading the Privileged Access Management (PAM) system and will enable Entergy to have the following additional features: Password Change and Generation, Target System Grouping and Detection, Automation, Failsafe Preparation, Managing Access for Non Employees, Audit and Reporting functionality. This program is utilized by all Entergy employees including distribution employees.
C1PP026INT	LCMSM Upgrade_Cleanup	The purpose of this project was to capture the capital costs associated with upgrading the Datacert Passport program. This program is used by all Entergy functions including distribution functions.

C1PPBTE191	RPA: ESS	The purpose of this project is to capture costs associated with the Robotics Process Automation (RPA) initiative which involves creating software programs to replace manual processes for the Entergy Self Services Organization. The Entergy Self Service Organization supports all Entergy functions, including Entergy Texas Distribution Operations.
C1PPCF082Z	Record to Report	The purpose of this project is to capture the costs related to upgrading the current Enterprise Resource Planning (ERP) system, in use by Entergy.
C6PP292ETI	SW-ETI 2019 SIP TRUNKING	The purpose of this project was to capture the capital costs associated with the replacement of the Primary Rate Interface (PRI) and analog trunks connected to the IP-PBX or PBX systems with a centralized architecture using Session Initiation Protocol (SIP) trunks. This system replacement is required to provide reliable customer service and for the continued operation of Entergy's infrastructure.
C1PPLRL331	LRL-Little Rock Data Center	The purpose of this project is to update Splunk (Entergy's event monitoring environment for security threats) by adding additional virtual servers and replacing Splunk's existing unsupported free software to a supported commercial-off-the-shelf software. This software will be used by all Entergy functions including the distribution function.

C1PPBT1191	RPA: IT	The purpose of this project is to capture costs associated with the Robotics Process Automation (RPA) initiative which involves creating software programs to replace manual processes for the Entergy Information Technology Organization. The Entergy Information Technology Organization supports all Entergy functions, including Entergy Texas Distribution Operations.
C1PPLRL328	15802-EPOWR_Ent Planned Outage Res	The purpose of this project is to capture the capital costs associated with upgrading several applications which are currently housed on a 2003 server. The 2003 server is being upgraded to a 2016 server to upgrade the old application technology. These applications are being used by all of Entergy, including Entergy Texas Distribution Operations.
C1PP143INT	SW-Validation Process btw BW and P2	The purpose of this project is to capture the capital costs associated with enhancing the monthly validation process to validate that all data (not just Kilowatt hours) are loading correctly between Business Warehouse and the Plan to Results (P2R) Customer Revenue module. P2R is used for all Entergy functions.
C1PP334INT	Microsoft License 2019 True Up	The purpose of this project is to capture capital costs associated with the purchase of additional licenses for new users of Microsoft products. All Entergy employees use Microsoft products.



C1PPS31INT	Certificate Manage Solution 2018	The purpose of this project is to capture the capital costs associated with the changing of the solution for digital certificates for websites and systems. Today, Entergy utilizes a third party entity to issue digital certificates for websites and systems. This third party is no longer going to support the product. Entergy will implement a new solution for this function.
C1PPBTD191	RPA: Incident Resp	The purpose of this project is to capture costs associated with the Robotics Process Automation (RPA) initiative which involves creating software programs to replace manual processes for the Entergy Incident Response Organization. The Entergy Incident Response Organization supports all Entergy functions, including Entergy Texas Distribution Operations.
C1PP291RL1	SPO-PCI Biannual Prod Rel 1 2019	The purpose of this project is to capture the capital costs associated with the installation, configuration, testing and deployment of PCI Release 1 software that is used for the scheduling and dispatching of Entergy and customer-owned facilities including those tied to the Entergy distribution system.

C1PPICS022	SW 15784-FP-Lease Accounting and GU	The purpose of this project is to capture capital costs associated with ensuring Entergy is compliant with external reporting requirements and adheres to internal control procedures critical to safeguarding sensitive employee data. This project will create two new contract approval safeguards in our current Asset Suite application benefitting all companies that use this system, including Entergy Texas distribution operations. Incorporating these controls into the contract approval process will decrease the potential inadvertent exclusion of financial reporting details and foregoing third party vendor assessments.
C1PP234INT	SW--Forward Proxy Replacement	The purpose of this project is to capture the capital costs to replace the current McAfee solution software with a more secure web gateway. The driving force to make this change is two-fold. The McAfee solution is reaching end of support and secondly to provide a secure tool to protect our organization as we become more dependent on the cloud, from the web to social media and mobile networks. The new solutions will be used by all Entergy functions including the distribution function.
C1PP335ESI	15760-Enterprise Mobile Manageme	The purpose of this project is to capture the capital costs to integrate a mobility solution into Entergy's identity management for access control and productivity applications for easy, secure access to corporate Microsoft office tools, content repositories and intranet sites. These new solutions will be used by all Entergy functions including the distribution function.

C1PPMA02SW	MA - Upgrade IPS Logility-2018	The purpose of this project is to capture the capital costs to upgrade the Inventory Planning System (IPS) architecture. This upgrade will combine application functionality on a web-based system that will allow for easier configuration. This system will be used by all Entergy functions including the distribution function.
C1PP267INT	SW-Secure DNS-DHCP-2018	The purpose of this project is to capture the capital costs associated with the installation and configuration of 26 appliances (self-contained server and storage device) to replace our current solution for Domain Name Service (DNS) and Dynamic Host Configuration Protocol (DHCP) and provide maximum security and performance. These system will be used by all Entergy functions including the distribution function.
C1PP090INN	SW-Peoplesoft PUM Upgrade Program	The purpose of this project is to allow entergy to take advantage of scheduled updates to the PeopleSoft systems, as necessary to maintain a current environment and minimize risk. All Entergy functions, including distribution, utilize PeopleSoft as their ERP.
C1PP067ATS	ATOS Workplace Svcs Intelligent Doc	The purpose of this project is to capture the capital costs of the creation of intelligent knowledge documentation as the basis for automation resolution of system errors and customer self-service options. This program will be used by all Entergy functions, including distribution.

C1PPMA8IN3	MA-Project CIRCE 2019	The purpose of this project was to capture the capital costs associated with implementing an enterprise Governance, Risk, and Compliance (eGRC) tool. This tool will help standardize processes across all of Entergy, including Entergy Texas Distribution.
C1PPBTP191	RPA: Power Gen	The purpose of this project was to capture the capital costs of implementing a program program to eliminate manual work of processing transactions and data manipulation to allow more time for analytic decision making to support our stakeholder needs. Automation is a multi-year strategic program where the foundational phase of Robotics Process Automation will focus to relieve the pressure on costs and revenue and to improve quality/speed/scalability. These automation processes will be used by all functions in Entergy, including Entergy Texas Distribution Operations.
C1PPINT060	SW-Cisco UC Upgrade & Exp 2019	This project will capture the capital costs of upgrading the Corporate Call Manager to share storage for better reliability and future growth. As part of this plan 10 digit dialing will be deployed throughout the Entergy Environment. All functions of Entergy use this function, including distribution.
C1PP291RL2	SPO-PCI Biannual Prod Rel 2 2019	The purpose of this project is to capture the capital costs associated with the installation, configuration, testing and deployment of PCI Release 2 software that is used for the scheduling and dispatching of Entergy and customer owned power generation facilities tied to the Entergy distribution or transmission system.

C1PPBTO182	RPA: SPO	The purpose of this project was to capture the capital costs of implementing a program program to eliminate manual work of processing transactions and data manipulation to allow more time for analytic decision making to support our stakeholder needs. Automation is a multi-year strategic program where the foundational phase of Robotics Process Automation will focus to relieve the pressure on costs and revenue and to improve quality/speed/scalability. These automation processes will be used by all functions in Entergy, including Entergy Texas Distribution Operations.
C1PPUO038A	Bill Print Vendor Replacement	The purpose of this project is to capture the capital costs to replace the current bill print vendor. Additionally, the solution will: 1) upgrade the billing platform for stability, 2) update the bill print composition software to portability, 3) provide some new self-serve features to the business, and 4) obtain up to date and comprehensive documentation that would support portability in the future. This new program will benefit all Entergy functions, including distribution.
C1PPDCJ331	DCJ-Jackson Data Center	The purpose of this project is to update Splunk (Entergy's event monitoring environment for security threats) by adding additional virtual servers and replacing Splunk's existing unsupported free software to a supported commercial-off-the-shelf software. This software will be used by all Entergy functions including the distribution function.

C1PPMAODLI	Oracle Database Lifecycle Mgmt	The purpose of this project is to capture the capital costs associated with evaluating and delivering the processes and implement Database Lifecycle Management (DBLM) tools. These tools will allow Entergy to enforce standard patterns for deploying Oracle Databases, as well as support the entire lifecycle of an Oracle databases from configuration management , configuration drift, patch management, etc. These databases are used by all Entergy functions, including distribution.
C6PPT57INT	TX - SIP Trunking	The purpose of this project is to capture the capital costs with replacing the time-division multiplexing (TDM) and analog trunks connected to the IP-PBX or private branch exchange (PBX) systems with a centralized architecture using Session Initiation Protocol (SIP) trunks. The tools will be used by all Entergy functions, including distribution.
C1PPLFN331	LFN-Lake Front North	The purpose of this project is to update Splunk (Entergy's event monitoring environment for security threats) by adding additional virtual servers and replacing Splunk's existing unsupported free software to a supported commercial-off-the-shelf software. This software will be used by all Entergy functions including the distribution function.

C1PPBTD182	RPA: Incident Response Jun-Dec 201	The purpose of this project was to capture the capital costs of implementing a program to eliminate manual work of processing transactions and data manipulation to allow more time for analytic decision making to support our stakeholder needs. Automation is a multi-year strategic program where the foundational phase of Robotics Process Automation will focus to relieve the pressure on costs and revenue and to improve quality/speed/scalability. These automation processes will be used by all functions in Entergy, including Entergy Texas Distribution Operations.
C1PP044INT	SW--IT Project Mgmt System Upgrade	The purpose of this project is to capture the capital costs associated with converting the IT Project Management System to Primavera. This will allow for better project coordination and management across Business Units providing better visibility and management of projects. IT Project Management supports all functions at Entergy, including distribution.

C1PPBTS182	RPA SUPPLY CHAIN JUNE - DEC 2018	<p>The purpose of this project was to capture the capital costs of implementing a program to eliminate manual work of processing transactions and data manipulation to allow more time for analytic decision making to support our stakeholder needs. Automation is a multi-year strategic program where the foundational phase of Robotics Process Automation will focus to relieve the pressure on costs and revenue and to improve quality/speed/scalability. These automation processes will be used by all functions in Entergy, including Entergy Texas Distribution Operations.</p>
C1PP336ESI	15759-Digital Rights Management	<p>The purpose of this project is to capture the capital costs to implement an Information Rights Management (IRM or Digital Rights Management/DRM) solution that has the capabilities to protect company information from being printed, forwarded or copied to unauthorized individuals/devices. This program will be used by all Entergy functions, including distribution.</p>



C1PPBTH191	RPA: HR	The purpose of this project was to capture the capital costs of implementing a program program to eliminate manual work of processing transactions and data manipulation to allow more time for analytic decision making to support our stakeholder needs. Automation is a multi-year strategic program where the foundational phase of Robotics Process Automation will focus to relieve the pressure on costs and revenue and to improve quality/speed/scalability. These automation processes will be used by all functions in Entergy, including Entergy Texas Distribution Operations.
C1PPBTU182	RPA:Utility Ops June-Dec. 20	The purpose of this project was to capture the capital costs of implementing a program program to eliminate manual work of processing transactions and data manipulation to allow more time for analytic decision making to support our stakeholder needs. Automation is a multi-year strategic program where the foundational phase of Robotics Process Automation will focus to relieve the pressure on costs and revenue and to improve quality/speed/scalability. These automation processes will be used by all functions in Entergy, including Entergy Texas Distribution Operations.

C1PPFIN182	Finance Robotic Automation 2Q18	The purpose of this project is to capture the capital costs to develop four software scripts using a Robotic Process Automation (RPA) tool called Automation Anywhere to automate existing finance business processes. By creating these software scripts, the efficiency and effectiveness of the finance process which are automated will improve. The Entergy finance department supports all business functions, including distribution.
C1PP24INT5	3 & 4 Qtr SQL & Oracle DB Ref. 18	The purpose of this project was to capture the capital costs to add selected Entergy databases on a technology platform that is, at least, covered within the extended support offerings of the vendor. These databases are used by all Entergy functions, including Distribution Operations.
C1PP072INT	SW-Trans Asset Renewal	This project captures the captures the capital costs to implement a new system to integrate with Entergy's assets and provide timely evaluation of asset health, risk, criticality enable strategic and proactive management decision-making relative to asset maintenance and life cycle management. This tool will be used by Entergy functions, including distribution.
C1PP219INT	SW-App. Performance Monitoring	The purpose of this project is to capture the capital costs to implement a system to monitor software which provides automated, rapid root cause diagnostics for application performance issues and develop real-time dashboards/reports for the application operations teams. This tool will be used by multiple Entergy functions, including distribution.

C1PP089INT	SWBI Tools Upgrade & Exp 18 PH1	The purpose of this project was to capture the capital costs associated with the upgrade of older versions of the Cognos software to the latest versions in multiple phases. Along with the upgrade effort, this project will also enable BI Self-service to give the power of the tool and data in the hands of the business users. Cognos is used by all Entergy employees, including Entergy Texas Distribution employees.
C1PPINT054	SW-View Outage Replacement	The purpose of this project is to capture the capital costs to replace the view outage system Entergy currently uses. The view outage system displays customer outages using triangles to summarize outage counts and also displays red lines to indicate circuit's that are out of electricity. This system is used by Entergy Texas Distribution employees to support restoration and outage tracking.
C1PPMA267I	MA-SW-Secure DNS-DHCP-2018	The purpose of this project is to capture the capital costs associated with the installation and configuration of 26 appliances (self-contained server and storage device) to replace our current solution for Domain Name Service (DNS) and Dynamic Host Configuration Protocol (DHCP) and provide maximum security and performance. These system will be used by all Entergy functions including the distribution function.

C1PPF082FN	Finance Reporting	The purpose of the project is to capture the capital costs to upgrade our current financial reporting system. This will allow for us to fully integrate our Enterprise Resource Planning (ERP) solution for the entire system. This program will be used by the Entergy Finance department which supports all Entergy functions, including distribution.
C1PPU13INT	EDE-COLLECT Upgrade	The purpose of this project is to capture the capital costs associated with installing a new technology that is supportable and will integrate with the PeopleSoft systems. These systems are used by all Entergy functions, including distribution.
C1PP019INT	Software Server Ref Exp Prog 2018	The purpose of this project is to capture the capital costs associated with the server refresh and expansion program. This project covers servers that are out of warranty and consolidating with virtualization where possible. All refreshed servers will use the latest certified version of the appropriate operating system (Windows, ESX, etc.) supported by installed applications. Capacity will also be added to the ESX clusters that require it. These servers support Entergy Texas, including distribution operations.
C1PPMAF082	Record to Report	The purpose of the project is to capture the capital costs to replace the PeopleSoft systems that manage the record to report (General Ledger / Chart of Accounts / Allocations / Automated Account Recs / Financial Close Management) process to integrate with the newly replaced Enterprise Resource Planning (ERP) solution. The ERP is used to support all Entergy functions, including distribution.

C1PP259INT	SW-2018 PBX REPLACEMENT	This project is to upgrade the existing telecom infrastructure at sites due to operational issues that has impacted Entergy's day-to-day business. The existing infrastructure is aging and at end of its life. It has been decided to migrate the PBX's (Nortel, Siemens and Rolm) at locations from the existing solutions to a new platform to reduce operational issues and to prolong the life of the existing infrastructure. This work order will cover the Texas jurisdiction, which includes distribution locations.
C1PPBTE182	RPA: ESS June - Dec. 2018	The purpose of this project was to capture the capital costs of implementing a program program to eliminate manual work of processing transactions and data manipulation to allow more time for analytic decision making to support our stakeholder needs. Automation is a multi-year strategic program where the foundational phase of Robotics Process Automation will focus to relieve the pressure on costs and revenue and to improve quality/speed/scalability. These automation processes will be used by all functions in Entergy, including Entergy Texas Distribution Operations.
C1PPU51INT	Stakeholder Engagement Mgmt.	The purpose of this project is to capture the capital costs associated with the implementation of the a cloud-based customer resource management (CRM) Software for the Stakeholder Engagement Program. This program will be used by all Entergy functions, including distribution.

C1PPBT1182	RPA:IT June - Dec. 2018	The purpose of this project was to capture the capital costs of implementing a program program to eliminate manual work of processing transactions and data manipulation to allow more time for analytic decision making to support our stakeholder needs. Automation is a multi-year strategic program where the foundational phase of Robotics Process Automation will focus to relieve the pressure on costs and revenue and to improve quality/speed/scalability. These automation processes will be used by all functions in Entergy, including Entergy Texas Distribution Operations.
C1PP023INT	Cisco UC Upgrade and Capacity Exp.	The purpose of this project is to capture the capital costs to implement an updated corporate call manager cluster. Included in this is the enhanced user experience through single sign-on. These enhancements will add value for the entire Entergy Corporate enterprise, including distribution.
C1PPBTP182	RPA: Power Gen Jun-Dec 2018	The purpose of this project was to capture the capital costs of implementing a program program to eliminate manual work of processing transactions and data manipulation to allow more time for analytic decision making to support our stakeholder needs. Automation is a multi-year strategic program where the foundational phase of Robotics Process Automation will focus to relieve the pressure on costs and revenue and to improve quality/speed/scalability. These automation processes will be used by all functions in Entergy, including Entergy Texas Distribution Operations.

C1PP204INT	Software - Alert Enterprise	The purpose of this project is to capture the capital costs associated with the implementation of Alert Enterprise Guardian Logical and Guardian Physical to automate Operational Technology (OT) systems for Critical Infrastructure Protection (CIP) provisions of the current manual processes and physical access. The Guardian Logical system will automate and identify access management. Guardian Physical software will manage will centralize the management of identities of the relationship to organizational roles, responsibilities and maintain physical access. The single enterprise access and provisioning system will maintain, monitor, and revoke access to IT systems and physical access for Entergy. This will be used by all Entergy functions, including distribution.
C1PP034INT	ENT-INFORMATICA 10 UPGRADE	The purpose of this project was to capture the capital costs of updating the bulk data migration tool in use by all Entergy Functions. The current version is no longer supported by the vendor.
C1PPMAP082	MA-Core HR (PR/ESS/MSS/Benefits)	The purpose of the project is to capture the capital costs associated with replacing the core HR (payroll, shared services, benefits) Enterprise Resource Planning (ERP) systems with a latest technology, fully integrated ERP solution. This project will focus on the replacing the core HR systems. The HR function supports all of the Entergy functions, including distribution.

C1PPCF082O	Order to Cash - PeopleSoft Systems Replacement	The purpose of the project is to capture the capital costs to replace the PeopleSoft systems that manages the order to cash process (Accounts Receivable / Billing Treasury / Cash Management) to integrate with the newly replaced Enterprise Resource Planning (ERP) solution. The new system will support all of Entergy's functions, including distribtuion.
C1PPC05INT	EDE-Litigation Hold Automation	The purpose of this project is to capture capital costs to implement automated litigation hold solution. Currently, the litigation hold process (issuing, tracking, and releasing hold letters) is a manual process done through Outlook and managed through an Excel Spreadsheet. This project will automate the process by implementing a legal hold software package that tracks issuance, acknowledgement and the release of hold letters. The Entergy Legal Department supports all functions, including distribution.
C1PP284INT	SW-Ser. Ref. and Exp 2019	The purpose of this project is to capture the capital costs associated with the server refresh and expansion program. This project covers servers that are out of warranty and consolidating with virtualization where possible. All refreshed servers will use the latest certified version of the appropriate operating system (Windows, ESX, etc.) supported by installed applications. Capacity will also be added to the ESX clusters that require it. These servers support Entergy Texas, including distribution operations.



C1PPINT023	SW - 2019 Server Refresh Rem.	The purpose of this project is to capture the capital costs associated with the server refresh and expansion program. This project covers servers that are out of warranty and consolidating with virtualization where possible. All refreshed servers will use the latest certified version of the appropriate operating system (Windows, ESX, etc.) supported by installed applications. Capacity will also be added to the ESX clusters that require it. These servers support Entergy Texas, including distribution operations.
C1PPF74INT	GTT-FOS-OSI PI Annual Product Relea	The purpose of this project is to capture the capital costs associated with the installation, configuration, testing and deployment of OSI / PI software that is used for real time collection and storing of data and using multiple stored data sets to analyse and forecast time based data associated with Entergy and customer owned power generation facilities tied to the Entergy distribution systems.
C1PP10INT2	ME-WH Mgnt Sys Upgrade Phase II	The purpose of this project is to capture capital costs to upgrade and new implementation of the Warehouse Management System (WMS) that will allow the four T&D Entergy distribution centers (EDC) in Hammond, Little Rock, Beaumont and Jackson to operate using the latest technology to pick, label, receive, put away, issue and ship material on a scheduled basis to the dependent storeroom facilities located in the various geographic areas. This new system will support the distribution function directly.

C1PPBTY182	RPA: Safety	The purpose of this project was to capture the capital costs of implementing a program program to eliminate manual work of processing transactions and data manipulation to allow more time for analytic decision making to support our stakeholder needs. Automation is a multi-year strategic program where the foundational phase of Robotics Process Automation will focus to relieve the pressure on costs and revenue and to improve quality/speed/scalability. These automation processes will be used by all functions in Entergy, including Entergy Texas Distribution Operations.
C1PPBRT182	RPA: NERC/CIP	The purpose of this project was to capture the capital costs of implementing a program program to eliminate manual work of processing transactions and data manipulation to allow more time for analytic decision making to support our stakeholder needs. Automation is a multi-year strategic program where the foundational phase of Robotics Process Automation will focus to relieve the pressure on costs and revenue and to improve quality/speed/scalability. These automation processes will be used by all functions in Entergy, including Entergy Texas Distribution Operations.
C1PP073INT	Enterprise Bi-annual Upgrades	The purpose of this project is to capture the capital costs to upgrade the Primavera P6 infrastructure, interfaces, and software components that leverage new capabilities and tools for the benefit of the business customers. This system will be used by all Entergy functions, including distribution.

C1PPBTJ182	RPA: Capital Projects	<p>The purpose of this project was to capture the capital costs of implementing a program to eliminate manual work of processing transactions and data manipulation to allow more time for analytic decision making to support our stakeholder needs. Automation is a multi-year strategic program where the foundational phase of Robotics Process Automation will focus to relieve the pressure on costs and revenue and to improve quality/speed/scalability. These automation processes will be used by all functions in Entergy, including Entergy Texas Distribution Operations.</p>
C1PPBTT191	RPA	<p>The purpose of this project was to capture the capital costs of implementing a program to eliminate manual work of processing transactions and data manipulation to allow more time for analytic decision making to support our stakeholder needs. Automation is a multi-year strategic program where the foundational phase of Robotics Process Automation will focus to relieve the pressure on costs and revenue and to improve quality/speed/scalability. These automation processes will be used by all functions in Entergy, including Entergy Texas Distribution Operations.</p>

C1PPINT037	FP-Scalable Asset Vision Cld Serv I	<p>The purpose of this project is to capture the capital costs to provide a sustainable, scalable enterprise-wide Software Asset Management (SAM) Tool meeting Entergy's needs, overall strategies and objectives. This project utilizes the Scalable Asset Vision Cloud based product that will provide Entergy with the ability to track, measure and remain compliant with the software entitlements used across Entergy, including distribution, as well as provide End User and Hosting Infrastructure Asset management.</p>
C1PPBTL191	RPA: Legal	<p>The overall purpose of this project is to provide a sustainable, scalable enterprise-wide Software Asset Management (SAM) Tool meeting Entergy's needs, overall strategies and objectives. This initiative will utilize the Scalable Asset Vision Cloud based product that will provide Entergy with the ability to track, measure and remain compliant with the software entitlements used across the Entergy Enterprise, as well as provide End User and Hosting Infrastructure Asset management. The current product is end of life / support therefore requiring a replacement of the current tool set as well as eliminating the manual data manipulation required to maintain software compliance. There will be a reduction of Asset and Software management tool duplication through this program.</p>

C1PP264INT	SW-UNIX-Linux Serv & OS Ref.18	The purpose of this project is to capture capital costs to refresh UNIX and Linux servers. This will keep our application portfolio in a stable and supportable environment. Servers were consolidated and virtualized were also implemented. There servers are used by all Entergy functions, including distribution.
C1PPBTT182	RPA: Jun-Dec 2018	The purpose of this project was to capture the capital costs of implementing a program program to eliminate manual work of processing transactions and data manipulation to allow more time for analytic decision making to support our stakeholder needs. Automation is a multi-year strategic program where the foundational phase of Robotics Process Automation will focus to relieve the pressure on costs and revenue and to improve quality/speed/scalability. These automation processes will be used by all functions in Entergy, including Entergy Texas Distribution Operations.
C1PP11INT2	SW - Office 365 - Collaboration-2	The purpose of this project is to implement Office 365 and other Microsoft products as part of the new licensing model. These products will be used by all Entergy functions, including distribution.
C1PP011INT	SW - Office 365 - Collaboration	The purpose of this project is to implement Office 365 and other Microsoft products as part of the new licensing model. These products will be used by all Entergy functions, including distribution.
C1PP152INT	SW - Documentum Upgrade	The purpose of this project is to upgrade the Entergy Enterprise Content Management tool to the current version. This program is used by all Entergy functions, including distribution.

C1PP245INT	1 & 2 Qtr SQL & Oracle DB ref. 18	The purpose of this project is to capture the capital costs to refresh the out of date versions of SQL Server and Oracle database management systems to the vendor supported levels. The database systems are used by all Entergy functions, including distribution.
C1PPBTH182	RPA: HR June - Dec. 2018	The purpose of this project was to capture the capital costs of implementing a program program to eliminate manual work of processing transactions and data manipulation to allow more time for analytic decision making to support our stakeholder needs. Automation is a multi-year strategic program where the foundational phase of Robotics Process Automation will focus to relieve the pressure on costs and revenue and to improve quality/speed/scalability. These automation processes will be used by all functions in Entergy, including Entergy Texas Distribution Operations.
C1PPD14216	SQL and Oracle Database Refresh	The purpose of this project is to capture the capital costs to refresh the out of date versions of SQL Server and Oracle database management systems to the vendor supported levels. The database systems are used by all Entergy functions, including distribution.
C1PPID157A	Network Asset and Conf. Mngmt.	The purpose of this project is to capture the capital costs of implementing a tool to provide backup, configuration, change management and inventory control of Entergy's network equipment. This new tool will be utilized by all Entergy functions, including distribution.

C1PPMMA119	Minor Add Middleware ESB EAI Conv	The purpose of this project is to capture the capital costs to consolidate Enterprise Application Integration (EAI) and Enterprise Service Bus (ESB) platforms into a single platform capable of meeting all integration needs, thus eliminating technology redundancies and creating an Enterprise-grade next generation platform capable of providing high speed transaction and messaging capabilities. This new platform will be used by all Entergy functions, including distribution.
C1PPC23INT	Outsource Copy Centers	The purpose of this project is to capture the capital costs of outsourcing Entergy's current copy center. This project will implement RSA WebCRD secure webbrowser ordering and fulfillment system for in-plant print operations of all sizes. The copy center is utilized by all Entergy functions, including distribution.
C1PPU02INT	GDT Performance Upgrade	The purpose of this project is to capture the capital costs associated with implementation of graphical design tool enhancements.
C1PP094INT	CBLE - PowerPlan Lessee Accounting	The purpose of this project is to capture the capital costs related to the upgrade of the asset management system in order to comply with the new accounting standard (ASC 842). This system is used by all Entergy functions, including distribution.

C1PP49INT1	SW1-EDE-Bill Syst Contr Repo Integ	The purpose of this project is capture the capital costs related to the upgrade of the billing management system to ensure that the rates being used are correct. This system is used to prevent revenue loss by ensuring rates are correct. This will be used by all Entergy functions, including distribution.
C1PPF082RE	HR Reporting	The purpose of this project is to capture the capital costs related to replacing the current Human Resources (HR) reporting system. The new system will integrate with the newly replaced Enterprise Resource Planning (ERP) tool. HR supports all Entergy functions, including distribution.
C1PP090INT	Infra Disaster Recov Automation	The purpose of this project is to capture the capital costs to automate some automate Information Technology (IT) tasks. IT supports all Entergy functions, including distribution.
C1PPIX05A	Automation Anywhere	The purpose of this project was to capture the capital costs of implementing a program to eliminate manual work of processing transactions and data manipulation to allow more time for analytic decision making to support our stakeholder needs. Automation is a multi-year strategic program where the foundational phase of Robotics Process Automation will focus to relieve the pressure on costs and revenue and to improve quality/speed/scalability. These automation processes will be used by all functions in Entergy, including Entergy Texas Distribution Operations.



C6PPT59INT	ETX-2018 Reg. Rate Development	The purpose of this project is to capture capital costs associated with updates made to CCS (Customer Care System) due to rate and regulatory mandated changes. Throughout the year, there are numerous CCS rate and regulatory mandated changes that must be made in order to keep the company in compliance with the payment of franchise fees, sales taxes, and other regulatory mandated items. This project implements the monthly regulatory rates for 2019. These are mandatory changes that must be implemented according to schedule in order to comply with regulatory requirements. All departments of Entergy utilize CCS, including Entergy Texas Distribution Operations.
C1PPCF082P	Core HR (Payroll/ESS/MSS/Benefits)	The purpose of the project is to capture the capital costs associated with replacing the core HR (payroll, shared services, benefits) Enterprise Resource Planning (ERP) systems with a latest technology, fully integrated ERP solution. This project will focus on the replacing the core HR systems. The HR function supports all of the Entergy functions, including distribution.
C1PP020INT	Upgrade IPS Logility-2018	The purpose of this project is to capture the capital costs to upgrade the Inventory Planning System (IPS) architecture. This upgrade will combine application functionality on a web-based system that will allow for easier maintenance and configuration. This system will be used by all Entergy functions including the distribution function.

C1PPCF082T	Source to Pay	The purpose of the project is capture the capital cost to replace the PeopleSoft systems that manage the source to pay (Accounts Payable / eSupplier / eSettlement) process to integrate with the newly replaced Enterprise Resource Planning. This is used to support all Entergy functions, including distribution.
C1PPODLINT	Oracle Database Lifecycle Mgmt	This project will capture the capital costs to and implement Database Lifecycle Management (DBLM) tools. These tools will allow Entergy, including distribution, to enforce standard patterns for deploying Oracle Databases, as well as support the entire lifecycle of an Oracle databases from configuration management , configuration drift, patch management, etc.
C1PPTAMSWZ	EAM - Meters - Software	The purpose of the project is to capture capital costs of Advanced Metering Infrastructure (AMI). This project delivers the Information Technology Systems and Infrastructure which includes the software, software licenses, IT hardware and its associated vendor costs and internal Entergy labor for the meter management software, head-end system, Meter Data Management System (MDMS), Enterprise Service Bus (ESB), Legacy Systems Integration, and the IT portions of Distribution Management System (DMS)/ Outage Management System (OMS) and the AMI part of the Enterprise Asset Management (EAM) system. These systems will be utilized by Entergy Texas Distribution Operations.

**Staff 1-8 Please provide a complete and detailed explanation regarding v**

Project Category	DCRF Project (Work Order) Number	Work Order Description	Function Class	Activity Cost
PSV021 - Substation Failure Replacements	C6PPDB0091	ETI: Purch (1)138x69-34.5kV   50MVA	Distribution Plant	904,212
PSV021 - Substation Failure Replacements	C6PPDB0161	ETI: Spare 138x69-34.5   25MVA	Distribution Plant	781,792
PSV021 - Substation Failure Replacements	C6PPDB0124	ETI: Purch 138-13.8   10.5MVA LTC	Distribution Plant	669,008

**Why ETI has included the following spare transformers in this DCRF application**

Distribution DCRF Amount	Detailed Description
904,212	The purpose of this project was to capture the capital costs associated with purchasing a new 138 x 69 - 34.5kV 50MVA LTC distribution transformer, as part of the ETI spare emergency fleet of distribution transformers stored in ETI's territory, to replace the spare transformer used for the failure of a transformer located at ETI's New Caney substation.
781,792	The purpose of this project was to capture the capital costs related to the purchase of a new 138 x 69 - 34.5kV 25MVA LTC distribution transformer, as part of the ETI spare emergency fleet of distribution transformers stored in ETI's territory, to replace the spare transformer transferred to and used at ELL's Brady Heights substation.
669,008	The purpose of this project was to capture the capital costs associated with purchasing a new 138-13.8kV 10.5MVA LTC distribution transformer, as part of the ETI spare emergency fleet of distribution transformers stored in ETI's territory, to replace the spare transformer used for the failure of a transformer located at ETI's Parkway substation.

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