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# STAR Case Study

## SAS Visual Analytics Dashboard for Managing SCE Data Issues



**STAR Case Study:** SAS Visual Analytics Dashboard for Managing SCE Data Issues

**Client:** Verdieu St Fleur, Southern California Edison (SCE)

**Background:** Southern California Edison (SCE) is one of the largest electric utility companies in California. To maintain regulatory compliance and ensure the safety and reliability of their electrical infrastructure, SCE conducts various inspections and notifications. The California Public Utilities Commission (CPUC) regularly audits SCE to ensure they adhere to regulations. To facilitate data management related to SCE Notifications and Inspections, a SAS Visual Analytics dashboard was created by Verdieu St Fleur for the districts within SCE.

**Objective:** The objective of this STAR (Situation, Task, Action, Result) case study is to showcase the implementation of a SAS Visual Analytics dashboard to help SCE districts manage data issues related to SCE Notifications and Inspections and stay in compliance with CPUC audits.

**Situation:** SCE faced challenges in efficiently managing data related to notifications and inspections, potentially leading to compliance issues during CPUC audits. Data issues included incomplete or inaccurate records of inspections and notifications, missing information about equipment.

**Task:** Verdieu, a data analytics and solutions provider, was tasked with developing a SAS Visual Analytics dashboard to address these challenges. The dashboard needed to provide a comprehensive view of notification and inspection data, highlight potential data issues, and enable district managers to take corrective actions.

**Action:** Verdieu implemented a SAS Visual Analytics dashboard with the following key components:

1. **Status Overview:**

- The dashboard provides an overview of notification and inspection statuses, including those pending corrective actions.
- District managers can easily identify outstanding issues that need attention.

2. **Breakdown by Notification Patrol Type:**

- The dashboard segments data by Notification Patrol Types, such as Annual Grid Patrol (AGP), Overhead Detail Inspection (ODI), Underground Detail Inspection (UDI), Breakdown Found by ODI, and Breakdown Found by UDI.
- Each segment includes detailed analysis and insights specific to the selected patrol type.

### 3. **Work Type Analysis:**

- This section focuses on various work types, including Potential Data Issues (Active notification with Inactive FLOC and/or Equipment), Notify Customer, and Notify CIP.
- District managers can drill down to explore specific issues within each work type and take corrective actions.

### 4. **Interactive Filters:**

- The dashboard includes interactive filters that allow users to narrow down data based on specific criteria like date, district, or notification type.
- This feature enables district managers to focus on data issues relevant to their jurisdiction.

### 5. **Data Issue Alerts:**

- Automated alerts are integrated into the dashboard to notify district managers of critical data issues requiring immediate attention.
- These alerts ensure proactive management of compliance-related challenges.

**Result:** The implementation of the SAS Visual Analytics dashboard significantly improved SCE's ability to manage data issues related to Notifications and Inspections. The key results achieved include:

- Increased compliance with CPUC regulations due to better data management.
- Reduced data errors and inconsistencies across districts.
- Improved visibility into pending actions and potential data issues.
- Enhanced decision-making capabilities for district managers.
- Timely identification and resolution of compliance-related challenges.

Overall, the SAS Visual Analytics dashboard developed by Verdieu empowered SCE to proactively address data issues, ensuring continued compliance with CPUC regulations and the efficient operation of their electrical infrastructure.