

**TABLE 2. KPI LEVEL 2 USED FOR MIDDLE MANAGERS IN THE ORGANIZATION**

Rank	KPI	Inspection Period	Calculation Method	General Acceptance Criteria
1	Chemical injection rate	Monthly	$\frac{\text{Number of performed measurements}}{\text{Number of scheduled measurements}}$	The closer to ratio one, the better the situation
2	Chemical residues	Monthly	$\frac{\text{Number of performed measurements}}{\text{Number of scheduled measurements}}$	The closer to ratio one, the better the situation
3	Corrosion rate	Annual	$\frac{\text{Number of performed measurements}}{\text{Number of scheduled measurements}}$	The closer to ratio one, the better the situation
4	Percentage of materials of quality control test program of purchased corrosion inhibitors	Annual	$\frac{\text{Number of performed quality control tests for purchased chemicals}}{\text{Number of purchased batches}}$	The closer to ratio one, the better the situation
5	Condition of corrosion inhibitor injection pumps	Monthly	$\frac{\text{Number of active injection pumps}}{\text{Total scheduled number}}$	The closer to ratio one, the better the situation
6	Quality of repairs	Annual	$1 - \frac{\text{Number of injection system work orders that need to be reworked}}{\text{Total injection system work orders}}$	The closer to ratio one, the better the situation
7	Furtherance of preventive activities		$\frac{\text{Number of performed preventive maintenance work orders to prevent shutdown system}}{\text{Total maintenance and preventive repair work orders}}$	The closer to ratio one, the better the situation
8	Percentage of completed corrective actions	Annual	$\frac{\text{Number of completed corrective actions related to injection system}}{\text{Number of approved corrective actions related to injection system}}$	The closer to ratio one, the better the situation
9	Percentage of furtherance of scheduled inspections of the injection system	Annual	$\frac{\text{Number of performed inspections}}{\text{Number of scheduled inspections}}$	The closer to ratio one, the better the situation
10	Monitoring of nitrogen blanketing conditions in the storage tank, inject chemicals to unit	Monthly	$\frac{\text{Number of performed measurements}}{\text{Number of scheduled measurements}}$	The closer to ratio one, the better the situation
11	Pigging	Annual	$\frac{\text{Number of performed pigging}}{\text{Number of scheduled pigging}}$	The closer to ratio one, the better the situation