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| **Date** | **Revision** | **Description** | **Author** |
| 09/29/2019 | 1.0 | Initial Version - Design of Water Pump Mechanism | Engineers, Designers |
| 09/30/2019 | 2.0 | Approval by Upper Management | Project Manager, CEO |
| 10/01/2019 | 3.0 | Inspection of Water Pump Equipment in Mine and do any fixes, Deploy Security | Workers, Engineers, Designers, Security |
| 10/02/2019 | 4.0 | They have to approved extra worker that was not on the list. Operator should work with water pump | Operators |
| 10/03/2019 | 5.0 | The worker perform the tasks with sensors | Workers |
| 10/04/2019 | 6.0 | When the worked is completed then inform upper management | Project Manager |
| 10/05/2019 | 7.0 | Health Inspection of Workers, Pump Inspection | Supervisor, Operator |
| 10/06/2019 | 8.0 | Payment of Salary by Upper Management to all positions | Director, Supervisor |
| 10/07/2019 | 9.0 | They should double checker on their work when complete the task | Project Manager |
| 10/08/2019 | 10.0 | Note down Workers Experience for Improvement next Time, for like Maintenance | Workers, Project Managers, Supervisors |
| 10/09/2019 | 11.0 | Work Environment play a role for the workers and whether they want to work there in the future | Managers,CEO |
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**·         Actors – who-Supervisor and operator,**

**/what interacts with the business solution/system? Some time the supervisor and operator work together and sometimes they do not work together.**

**·         Use Cases – what behaviors does the business solution/system exhibit? Water  level is high or lower gas pump is on or low is low and high.**

**Use Case Specification (Description) Template**

Use Case ID: *1*

Use Case Name: *methane gas sensor Alarm*

Relevant Requirements: \*some gas should exist

Primary Actor:The system *{Main sub-system/entity that initiates use}*

Pre-conditions: They have to make to the limits *{Requirements on the state of the system prior to this use being valid.}*

Post-conditions: Tell the people to exit the building *{This describes the state of the system following the successful completion of this use. Effects on other systems and actors may also be described.}*

Basic Flow or Main Scenario: There  are three steps are gas level too high,the alarm come off, tell the people to exit the building *Numbered flow of events: 1 The user initiates an action by... 2 The system responds by...}*

Extensions or Alternate Flows:None *{This section presents variations on this use case. It presents those use cases that have an extends relation with the current use case.}*

Exceptions: If the system get overheating and the sensor do not go off *{This section describes all error conditions that can arise in the use case.}*

Related Use Cases:write {use cases that are either usually performed just before or after the current use.}

Use Case ID: *2*

Use Case Name: *methane gas sensor notes*

Relevant Requirements: \*some gas should exist

Primary Actor:The system *{Main sub-system/entity that initiates use}*

Pre-conditions: The gas sensor detail/limit should be defined  *{Requirements on the state of the system prior to this use being valid.}*

Post-conditions: Observe the gas sensor if they lower than higher points *{This describes the state of the system following the successful completion of this use. Effects on other systems and actors may also be described.}*

Basic Flow or Main Scenario: The supervisor and operator  have access to the reading to the methane gas. th*Numbered flow of events: 1 The user initiates an action by... 2 The system responds by...}*

Extensions or Alternate Flows:In the extension the supervisor could add notes to any events that occur within 24 hours. *{This section presents variations on this use case. It presents those use cases that have an extends relation with the current use case.}*

Exceptions: None*{This section describes all error conditions that can arise in the use case.}*

Related Use Cases:If gas sensor  get to the higher point then put an alarm on. {use cases that are either usually performed just before or after the current use.}

Use Case ID: *3*

Use Case Name: *pump water sensor on*

Relevant Requirements: \*some water should exist

Primary Actor:The system *{Main sub-system/entity that initiates use}*

Pre-conditions: When the  water sensor is  high *{Requirements on the state of the system prior to this use being valid.}*

Post-conditions: Overflowing *{This describes the state of the system following the successful completion of this use. Effects on other systems and actors may also be described.}*

Basic Flow or Main Scenario: There  are two steps are water level are too high,and the water overfloating. *Numbered flow of events: 1 The user initiates an action by... 2 The system responds by...}*

Extensions or Alternate Flows:None *{This section presents variations on this use case. It presents those use cases that have an extends relation with the current use case.}*

Exceptions: If the system get overheating and the sensor do not go off *{This section describes all error conditions that can arise in the use case.}*

Related Use Cases:write {use cases that are either usually performed just before or after the current use.}

Use Case ID: *4*

Use Case Name: *pump water sensor off*

Relevant Requirements: \*some water should exist

Primary Actor:The system *{Main sub-system/entity that initiates use}*

Pre-conditions: When the  water sensor is  lower *{Requirements on the state of the system prior to this use being valid.}*

Post-conditions: enough water *{This describes the state of the system following the successful completion of this use. Effects on other systems and actors may also be described.}*

Basic Flow or Main Scenario: There  are two steps are water level are too high,and the water overfloating. *Numbered flow of events: 1 The user initiates an action by... 2 The system responds by...}*

Extensions or Alternate Flows:None *{This section presents variations on this use case. It presents those use cases that have an extends relation with the current use case.}*

Exceptions: None *{This section describes all error conditions that can arise in the use case.}*

Related Use Cases:write {use cases that are either usually performed just before or after the current use.}