

ก้าวที่กล้า
สู่ **New Curve**
CHANGE



INNOVATION
WARD
2019

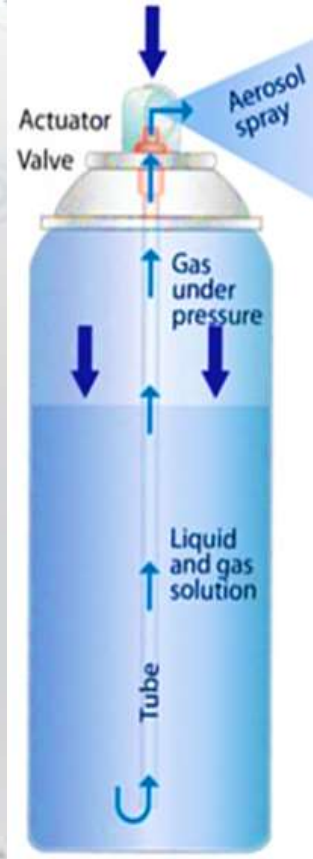
Aerosol Super Skid



TEAM MEMBER



LPG AEROSOL PRODUCT



LPG Aerosol is odorless product which is GSP NEW PRODUCT to create and expand LPG Value chain from existing process to enhance plant variety of the production.

LPG + Butane from GSP

Odor Removal Unit : ORU

LPG Aerosol Product

Customer Demand

- Process Continuous
- 45 Ton per day

Operation Design

- Odor treatment by Molecular sieve
- ORU Service time 12 months

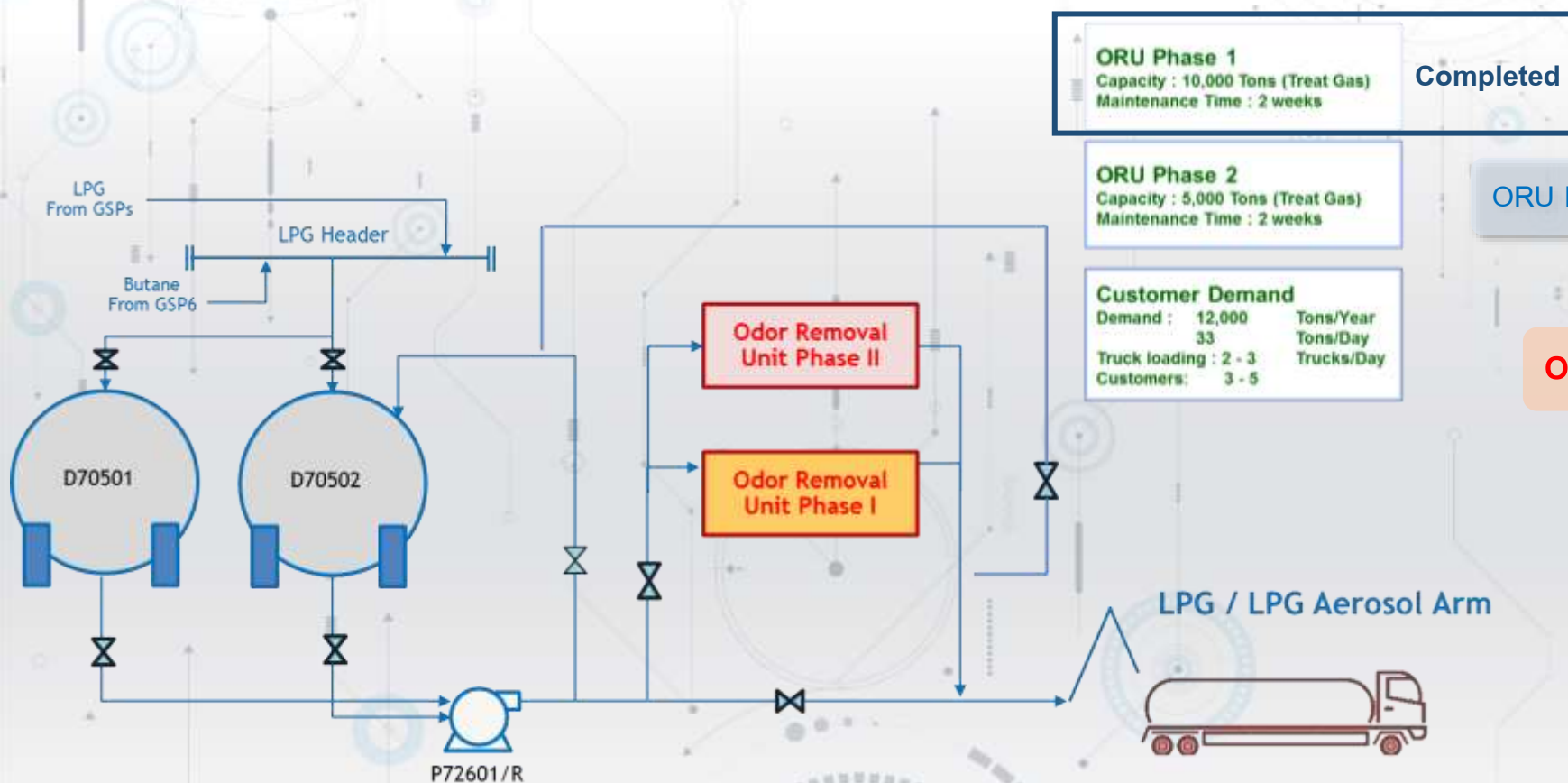
Problems

- Molecular sieve replacement
- Delivery shortage



Odor Removal Unit for Aerosol Product : ORU

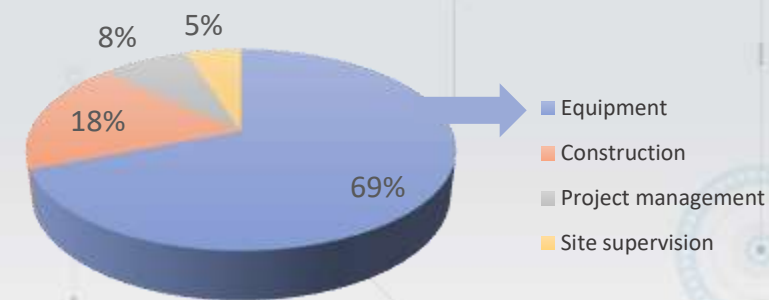
LPG AEROSOL Operational Design



Utilized existing equipment : Propane surge drum and installed only new outlet filter

ORU Phase 2 : New Adsorbers + new outlet filter

ORU Phase 2 : High investment cost 29.5 MB



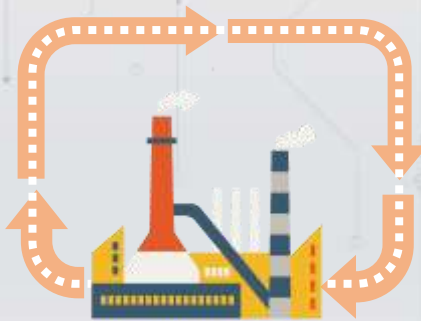
ORU Phase 2 Investment Cost

PAIN POINT

HIGH INVESTMENT COST FOR INSTALLATION NEW UNIT

Customer Demand

- Supply product continuously
- 45 Ton per day



More
Facility
Installation

Standby
unit

Sieve
degradation

High
Investment
Cost

Location
limit

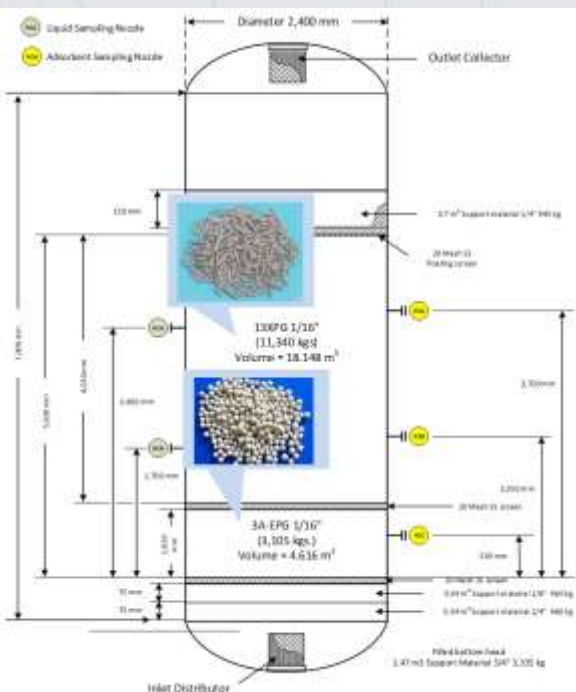
Maintenance
cost

Only
15 Service
Days

OBJECTIVE AND GOAL

ORU PLUG-IN UNIT

- **Pr**
- **Re**
- **Sn**
- **Lo**
- **Ea**

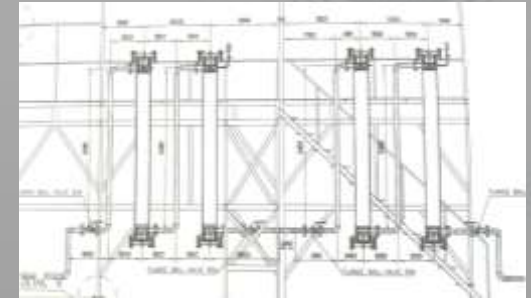


ORU PLUG-IN UNIT DESIGN



- Sieve type
- Contact time
- Service volume

INPUT DATA



Capacity : Odor treatment for 720 ton of LPG

Design : Small and moveable

Service : 15 Days (Sieve replacement period)

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Benefits



- Investment Cost Reduction
29.5 MB → 9.7 MB **SAVING 19.8 MB**
- Maintenance Cost Reduction
- No Delivery Shortage
15 Days : 14.4 MB



- Customer satisfaction
- Equipment utilization

KM UTILIZATION

- KM: โอกาสการขายผลิตภัณฑ์ให้กับลูกค้ากลุ่ม Aerosol, โดยส่วนจัดหาและจัดจำหน่าย, 16 มีนาคม 2555
- https://ptt-intraweb.pttgrp.com/gspintranet/document/DocLib/GSP MSC/ปี 2012/ครั้งที่07/3.4 Butane_16 Mar 12 rev1.pdf

