



## Annex A2-3:

### *Report on Design of the pilot plant and refinery integration*

Subject	Project acronym / Ref. No.	Date
<i>Deliverable under Action A.2</i>	Etanolix 2.0 for LIFE+ / LIFE12 ENV/SE/000529	01/09/2014
Issued by	Company / Department	
Linda Werner (PM/Technical Manager)	St1 Refinery AB / Technical Department	

### Report on Design of the pilot plant and refinery integration

A number of preparatory actions are required for any projects or management of changes within the refinery site. Common refinery procedures need to be fulfilled, to primarily ensure that safety aspects are covered, and to ensure compliance with management systems and good practice. E.g. in this project the following documents are referred to in the project's file for this specific project.

- Management of change database project number 8344, 8349 and 8472. Describing the design scope of the integration and process unit.
- Lay-outs, the plot plans of the area, showing the location and placing of the Etanolix 2.0 integration into the refinery.
- Process Flow Schemes (PEFS) presenting some more technical details of the scope and how the process streams will be defined.
- Check lists, from different areas of competences within the refinery organization, where noted certain details to be alert on when designing the pilot plant and the refinery integration. E.g. the process engineers input to the construction department.
- Copies of notification documents ensuring the local authorities got the information required for a change in the refinery.

After the design phase of the project is finalized and before starting the actual construction and field activities, the refinery Management team (including the Project Manager/Technology Manager) had to sign off to show their acceptance to the design going forward with the project. This is accordingly to the “*Management Procedure*” and the Project model the refinery has implemented many years ago.

