

Environmental and Social Action Plan

Astarta Project, Ukraine (#30830)

Revision Date: September 24, 2012

	Task	Indicator of Completion/ Deliverable	Completion Date
PS1: Social and Environmental Assessment and Management Systems			
1	Develop the environmental and social (E&S) management plans to ensure addressing impacts and risks associated with construction and operation phases of new projects	1a) E&S management plan (ESMP) for a soybean crushing plant; 1b) E&S management plan (ESMP) for a biogas facility	1a) December 31, 2012 1b) December 31, 2012
2	Amend existing land leasing procedures by including screening of new land plots for early identification of potential environmental and social risks and impacts	Procedure for identification of potential E&S risks and impacts associated with leasing of new land plots	December 31, 2012
3	Assign a suitably qualified and competent professional environmental manager on a corporate level	Curriculum vitae/ resume accepted by IFC and the order of appointment	December 31, 2012
4	Develop a plan for gradual implementation of the RTRS principles in soybean processing business	Plan for gradual implementation of the RTRS standard in soybean processing business	May 30, 2013
PS2: Labor and Working Conditions			
5	Develop a three-year plan for gradual implementation of the OHS management systems at individual operations consistent with OHSAS 18001 and IFC's PSs with priority implementation in agricultural sector	Plan for gradual implementation of the OHS management systems at individual operations in agricultural sector and sugar manufacturing	January 30, 2013
6	Revise the existing training programs of employees handling pesticides and provide documentary evidence that the training is based upon MSDS and/or ICSCs and integrate pest management procedures into the EHS management system manual.	6a) Revised training programs based upon MSDS (material safety data sheet) and/or ICSCs; 6b) Document evidence of incorporation of pest management procedures into the EHS management system manual 6c) Inventory available PPE and ensure availability of adequate PPE for employees exposed to contact with pesticides	6a) October 30, 2012 6b) November 30, 2012 6c) November 30, 2012
7	Include the cholinesterase levels monitoring in the medical tests of employees applying pesticides	7a) Policy for workers rotation to avoid chronic exposures to specific pesticides; 7b) Protocol for cholinesterase testing	7a) January 30, 2013 7b) February 28, 2013
8	Address risks associated with ACMs handling	8a) Safety procedures and training programs for personnel handling ACMs; 8b) Document evidence of provision of	8a) December 30, 2012; 8b) January 30, 2013

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		adequate PPE 8c) Document evidence on proper disposal of dismantled ACMs	8c) Upon completion of ACMs removal
PS3: Pollution Prevention and Abatement			
9	Develop an action plan, if needed, to comply with the WBG limits for air emissions from coal fired power/ heat stations of sugar mills	Action plan to meet the WBG limits for air emissions from coal fired power/ heat stations of sugar mills	December 30, 2013
10	Develop a long-term program for improvement of sugar plants' wastewater systems to prevent contamination of soil and groundwater, reduce areas occupied by sedimentation ponds and measures for remediation of areas used for wastewater treatment systems	10 a) Program for improvement of sugar plants' wastewater systems 10b) Action Plan, if needed, to comply with WBG's effluent limits	10a) December 30, 2013 10b) December 30, 2016
11	Develop a phase out plan to replace R22 by 2018	Phase out plan to replace R22	December 2013
12	Develop a policy statement to commit that Astarta will avoid use of WHO Ia/Ib pesticide chemical formulations in its operations	Policy statement committing to avoid using WHO Class Ia/Ib chemical formulations	March 31 2013
13	Develop and implement Integrated Pest/Disease Control Programs through the Company's own technical team and the involvement of international and local advisers	13a) Proposal to develop an IPM/IDM system including contracts based on tender procedures with consultants/advisers 13b) Integrated pest/disease management (IPM/IDM) programs	13a) March 31, 2013 13b) March 31, 2014
PS4: Community Health, Safety and Security			
14	Arrange studies to confirm that drug and pesticide residues in milk meet maximum residue limits (MRLs) for veterinary drugs and pesticides recommended by the World Health Organization (WHO) and Food and Agriculture Organization of the United Nations (FAO) and will undertake corrective actions, if needed to comply with MRLs.	14a) Report on veterinary drugs and pesticide MRLs in milk 14b) Action plan, if needed, to meet MRLs	14a) December 2014 14b) July 2015