



## Field and Technical Service

Scope	Crew Size	Duration	Year
Construction management for machine rebuild	60	75 days	2020
Project management for reel spool brake	8	2	2020
Project management for slitter section installation	24	6	2020
Project management for installation of hydraulic reel	50	5 days	2019
Project management for installation of seven felt systems	25	30 days	2019
In field pressure test and state special paperwork	2	1 day	2019
Construction management for installation of two dryers	20	5 days	2019
Project management for installation of camera inspection system	6	5 days	2019
Project management for installation of dryers, hood, and tail threading	32	5 days	2019
Project management of four dryer replacement project	36	6 days	2019
Project management for wet end repairs	8	7 days	2019
Startup and commissioning of size press	2	3 days	2019
Inspection dryer section drive train	5	2 days	2019
Contractor coordinator for rebuild of flakt dryer	10	15 days	2019
Project management for installation of headbox	45	30 days	2018
Project management/rigging design install of five dryers	16	6 days	2018
Installation of dryer turbulator bars	3	1 day	2018
Replacement of reel drum heads and reel alignment	8	3 days	2018
Drive gear change out	8	3 days	2018
Design and install piping system for food processing site	4	21 days	2018
Replace inspection cover gaskets	4	2 days	2018
Install winder cradle	10	3 days	2018
Construction manager for repair of 21 leaking steam vessels	12	12 days	2018
Design and installation of camera inspection system	15	7 days	2018
Construction manager for coater installation	25	5 days	2018
Construction manager for cable install and UPS upgrade	20	4 days	2018



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Scope	Crew Size	Duration	Year
Gear inspection and gear wear trending on two paper machines	6	5 days	2018
Project manager for installation of 19 doctors	6	5 days	2018
Project manager for install of 5 paper machine dryers	24	5 days	2018
On-site hydrostatic testing	3	2 days	2017
Through wall pressure vessel repair	6	2 days	2017
Install press felt stretch	10	3 days	2017
Installation assistance for machine rebuild	2	5 days	2017
Install air motor actuated felt stretch	14	5 days	2017
Perform dryer section gear study	4	1 day	2017
Installation and commissioning of CC roll; included 2 weeks offsite engr support	12	14 days	2017
Size press commissioning	6	5 days	2017
Emergency outage support; replace fabric guide controller	5	2 days	2017
Pump dryer head bolts	5	1 day	2017
Supervise repair of fourdrinier rails and shake	5	2 days	2017
Emergency outage support; drive train wreck	8	4 days	2017
Design and project management of high pressure lube system	12	5 days	2016
Project manager for new food drying technology	10	20 days	2018
Project manager for re-rate of 27 dryers	20	3 days	2016
Project manager for size press installation	14	5 days	2016
Drive train evaluation/clutch replacement design	3	8 days	2016
On-site failure analysis of machine bearings	1	4 days	2016
Technical project manager for installation of 2 dryers	12	5 days	2016
Structural evaluation of drive base	3	2 days	2016
Technical project manager for installation of press section	14	17 days	2016
In place rebuild of five fabric guides	5	5 days	2016
Balance one dryer in machine	6	1 day	2016

Scope	Crew Size	Duration	Year
Inspection of dryer gears on two machines	3	2 days	2016
Technical study for machine vibration	4	5 days	2016
Technical project manager for installation of 22 dryers	14	13 days	2016
Shift project manager for installation of 22 dryers	12	17 days	2016
Perform dryer section gear study	3	2 days	2016
Perform dryer section gear study	3	2 days	2016
Evaluation/re-rate of three condensate tanks	7	2 days	2015
Evaluation of press roll	1	2 days	2015
Re-rate of 27 paper machine dryers	11	1 day	2015
Paper machine press inspection and rebuild plan	2	5 days	2015
Project management for installation of Yankee bearings and drive gear	6	6 days	2015
Design, supply, and installation of pneumatic control panels	2	4 days	2015
Supervise installation of dryer section	20	15 days	2015
Inspection of 35 paper machine dryers	10	1 day	2015
Evaluation of a paper machine fabric system	1	3 days	2015
Design of an automated welding fixture	1	2 months	2015
Evaluation of a local thin area on a pressure vessel	1	3 days	2014
Evaluation of a dryer section fabric system	1	3 days	2014
Design of a paper machine drive upgrade	1	5 days	2014
Evaluation of air dryer failure	5	3 days	2014
Technical support for fourdrinier rebuild	8	7 days	2014
Fabric guide inspection and troubleshooting	1	2 days	2014
Design verification of new sheet run	3	3 days	2014
Gear inspection and trend report	3	4 days	2014
Coater section horsepower and drive study.	3	5 days	2014
Technical support for installation of roll bearings	3	3 days	2014



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<b>Scope</b>	<b>Crew Size</b>	<b>Duration</b>	<b>Year</b>
Mechanical evaluation of paper machine.	1	5 days	2014
Verification of Yankee dryer derate curve.	1	2 days	2014
Technical installation support of stacked dryer replacement project-38 dryers	30	16 days	2014
Verification of wet end roll design to include journal stress and roll deflection.	1	2 days	2014
Design of footwalks, save-all pans, and safety guarding.	2	18 days	2013
Design verification of fourdrinier cantilever beams. Calculation of loads.	1	4 days	2013
Shutdown support for installation of paper machine equipment.	16	5 days	2013