STATE OF CONNECTICUT CONNECTICUT SITING COUNCIL

Petition of BNE Energy Inc. for a Declaratory Ruling for the Location, Construction and Operation of a 4.8 MW Wind Renewable Generating Project on Winsted-Norfolk Road in Colebrook, Connecticut ("Wind Colebrook North") Petition No. 984

April 25, 2011

PETITIONER BNE ENERGY INC.'S INTERROGATORY RESPONSES TO FAIRWINDCT, INC.'S THIRD SET OF INTERROGATORIES

Petitioner BNE Energy Inc. ("BNE") submits the following responses to the Third Set of Interrogatories issued by FairwindCT, Inc. dated April 12, 2011:

Q1. Are you now seeking approval only for turbines with a blade length of 41.25 meters?

A1. As discussed the numerous filings submitted by BNE, BNE expects to utilize the GE 1.6 MW turbine with a 100 meter hub height and 82.5 meter blade diameter. However, since BNE does not have a contract with GE and given the ever changing technology, BNE has requested approval for up to a 100 meter blade diameter.

Q2. Are you now seeking approval only for the "alternate" location of Turbine 1 submitted with the pre-filed testimony of Curtis Jones?

A2. BNE filed its petition to site 3 turbines on the Colebrook North property and that has not changed. As part of its continuous review of this project and in response to comments and concerns raised by parties, intervenors, the general public, and the Siting Council, BNE proposed to re-locate turbine 1. The re-location accomplishes several goals including: further increasing setbacks from residential property lines and residences and, in addition, reducing wetlands impacts, reducing environmental impacts associated with the need to construct a separate, second access road for the original turbine #1 location. In addition, as was discussed in the pre-filed testimony of Curtis Jones, BNE revised the Colebrook north site plans to reduce the overall width of the access road due to increased availability of a narrow track crane, which again serves to reduce the environmental impact of the project as a whole. BNE submits that these changes even further reduce any environmental impact associated with the project and therefore believes that the revised location of turbine #1 is preferable for the Siting Council's approval and, as such, did not provide similar information concerning the original location of turbine #1. BNE recognizes, however, that the Siting Council has jurisdiction over the entire property and can re-locate any of the three proposed turbines and the access road.

- Q3. How many Mechanical Loads Assessments were conducted for this site? Please provide copies of all Mechanical Loads Assessments conducted for this site.
- A3. Two MLAs were performed for the Colebrook North site. One MLA was conducted for the original layout as proposed in the petition. That MLA is already on file under seal with the Siting Council. When BNE proposed to re-locate turbine #1, a second MLA was performed. That MLA is also being filed separately and under seal pursuant to the protective order in place in this petition.
- Q4. Please provide dimensions for the 1.6-82.5 turbine, including width of the turbine tower, height, width and depth of the nacelle, and the width of the blades at the widest point.
- **A4.** The requested document is being filed separately pursuant to a motion for protective order and under seal.
- Q5. Please provide dimensions for the 1.6-100 turbine, including width of the turbine tower, height, width and depth of the nacelle, and the width of the blades at the widest point.
- **A5.** The requested document is being filed separately pursuant to a motion for protective order and under seal.
- Q6. In response to Question 1 of FairwindCT's First Set of Interrogatories, which asked for the GPS coordinates of the proposed turbine locations, you provided only three sets of coordinates. Please also provide the coordinates for your originally proposed location of Turbine 1.
 - **A6.** The requested GIS coordinates are below:

Wind Turbine	<u>Latitude</u>	Longitude
Western Turbine (1)		
(Alternate Location)	41° 58' 34.481" N	73° 8' 16.085" W
Western Turbine (1)		
(Original Location)	41° 58' 30.486" N	73° 8' 25.321" W
Southeastern Turbine (2)	41° 58' 29.702" N	73° 7' 59.969" W
Northeastern Turbine (3)	41° 58' 38.061" N	73° 7' 57.378" W

- Q7. In response to Question 22 of FairwindCT's First Set of Interrogatories, you stated "[p]re-construction bird surveys are currently underway to investigate migration of raptors and songbirds during the spring migration period." Please confirm that these surveys are currently underway on the Colebrook North site and state when the surveys began.
 - **A7.** The bird surveys referenced are underway and began in early March 2011.
- Q8. In response to Question 22 of FairwindCT's First Set of Interrogatories, you stated "[p]re-construction bird surveys are currently underway to investigate migration of raptors and songbirds during the spring migration period." Please state the timeframe in which these surveys will be conducted, explain the methodology used for these surveys and identify the entity and individuals conducting these surveys.
- **A8.** Western EcoSystems Technology Inc. ("WEST") is completing field surveys, data analysis and reporting of surveys. The surveys are described below:

Raptor Migration Surveys

The objective of spring and fall raptor migration surveys is to document numbers and species of diurnal raptors (including kites, accipiters, buteos, harriers, eagles, and falcons) and vultures migrating over the Project. Raptor migration surveys will be conducted by a single observer from one prominent location located at the Colebrook meteorological tower located at Colebrook South. The sampling point offers the best available viewshed located at either project phase (North or South). The spring sampling period is between March 7 – May 31, 2011, and the fall sampling period will be between approximately August 31 – November 1, 2011. Observations take place on one day per week starting at approximately 9:00 a.m. and continuing until approximately 5:00 p.m., or later if birds are continuing to move through the area. When possible, surveys will be conducted on days when weather conditions were conducive to raptor migration (e.g. warm, clear, high pressure conditions). Field methods used will follow recommendations by the Hawk Migration Association of North America ("HMANA") and HawkWatch International ("HWI"), with the observer continuously scanning overhead with binoculars for migrating raptors utilizing determined flight paths. The date, start and end time of the survey period, and weather information such as temperature, wind speed, wind direction, barometric pressure, percent cloud cover, precipitation, and maximum visibility estimates will be recorded for each survey. Weather information will be recorded hourly during the survey, using a Kestrel® 2500 pocket wind meter (Neilsen Kellerman, Boothwyn, PA). Time of observation, raptor species or best possible identification, number of individuals, age and sex (if possible), distance from observer, flight height, and flight direction will be recorded for each observation. Distance and flight height will be recorded when the raptor is in line with the observer. The observer will record all information on a standardized data form. While the observer will focus observations on raptors, they will also collect information on sensitive species, other large birds and large flocks of birds seen during surveys. Statistical analysis will include calculations of species diversity and use (number of raptors per observer hour).

Migrating and Breeding Bird Surveys

These surveys are intended to provide an estimate of the type and number of species moving through the area in the spring and fall, and using the Project during nesting. Songbird surveys will be conducted once per week from approximately April 22 and during the months of May, June, and September 2011. These surveys will be carried out from first light until no later than 10:00 a.m. All birds identified by sight and sound at each survey point will be recorded, though the focus will be on songbirds.

Survey points will be arrayed such that all major landcover types found within the Project are sampled. It is anticipated that up to 15 survey points will be arrayed within Colebrook North. All survey routes and survey points will be recorded on a map and with GPS. It is anticipated that surveys will require one day per week to complete. Weather conditions will be conducive to hearing birdsong and seeing birds move about in vegetation and in flight. Surveys will not be conducted during periods of excessive or abnormal heat, cold, wind (greater than 2 on Beaufort scale), or rain that may reduce the surveyor's ability to detect bird species. All birds seen or heard will be recorded on a standardized data form, though only observations within 50 meters (164 feet) of the survey point will be included in analysis. Data recorded will include: date, start and end time of observation period, point number, species or best possible identification, sex and age (if possible), number of individuals, distance from point, behavior, first altitude above ground, flight direction, habitat and auditory-only observations. Behavior will be recorded at first observation as:

- NA nesting activity (visually identified e.g. nesting/food material delivery)
- CO courtship display (visually identified e.g. copulation, flight display)
- AC alarm/warning call (auditory detection)
- SI singing (auditory detection)
- OC other call (auditory detection e.g. chirp, non-breeding call)
- PE perched
- FL flight including flapping, soaring, gliding, hovering
- OT other

Climate information, such as temperature, wind speed, wind direction, precipitation, and cloud cover will also be recorded for each survey point using a hand-held weather meter (Kestrel).

Statistical Analysis

Bird Diversity and Species Richness

Bird diversity will be illustrated by the total number of unique species observed. Species lists (with the number of observations and the number of groups) will be generated by season and include all observations of birds detected, regardless of their distance from the observer. Species richness will be calculated as the mean number of species observed per plot per survey (number

of species/50-m plot/5-min survey). Species diversity and richness will be compared between seasons.

Bird Use, Composition, and Frequency of Occurrence

For the standardized bird use estimates, only observations within a 50 meter radius (164 feet) will be used in the analysis. Estimates of mean bird use (i.e., number of birds/plot/5-min survey) will be used to compare and contrast among bird types, seasons, survey points, and other wind energy facilities (when possible). Mean use will be calculated by determining the number of birds seen within each 50 meter plot for each given visit and then averaging by the number of plots surveyed during that visit. A visit is defined as the required length of time to survey all of the plots once within the study area.

Percent composition will be calculated as the proportion of the overall mean use for a particular bird type or species, and the frequency of occurrence will be calculated as the percent of surveys in which a particular bird type or species is observed. Frequency of occurrence and percent composition provide relative estimates of species exposure to the wind energy facility. For example, a species may have high use estimates for the study area based on just a few observations of large groups; however, the frequency of occurrence will indicate that the species occurs during very few of the surveys and therefore may be less likely to be affected by the proposed wind energy facility.

Spatial Use

Data will be analyzed by comparing mean use among plots and stratified habitat types (e.g. grassland or forested).

- Q9. In response to Question 22 of FairwindCT's First Set of Interrogatories, you stated "[p]re-construction bird surveys are currently underway to investigate migration of raptors and songbirds during the spring migration period." When will the results of these pre-construction spring migration bird surveys be reported in final form? Will those results be made public?
- **A9.** Interim results of spring surveys completed between March 7 April 15, 2011, will be provided to the Siting Council in mid-May 2011. The interim report will include results of raptor migration surveys completed during this period. A final report for spring bird surveys will be completed in July 2011. This report will include final results of spring raptor migration surveys (March May) and spring songbird surveys (April May). BNE will file the results with the Siting Council and with the Department of Environmental Protection.
- Q10. In response to Question 22 of FairwindCT's First Set of Interrogatories, you stated "[p]re-construction bird surveys are also proposed for the summer breeding season and the fall migration season." Please confirm that these surveys are proposed for the Colebrook North site.

- **A10.** BNE has already stated on the record that these surveys will be performed on the Colebrook North site. See response to FairwindCT's First Set of Interrogatories.
- Q11. In response to Question 22 of FairwindCT's First Set of Interrogatories, you stated "[p]re-construction bird surveys are also proposed for the summer breeding season and the fall migration season." Please state the timeframe in which these surveys will be conducted, explain the methodology used for these surveys and identify the entity and individuals who will conduct these surveys.
 - **A11.** See response to interrogatory 8.
- Q12. In response to Question 22 of FairwindCT's First Set of Interrogatories, you stated "[p]re-construction bird surveys are also proposed for the summer breeding season and the fall migration season." When will the results of these pre-construction summer breeding and fall migration bird surveys be reported in final form? Will those results be made public?
- **A12.** A single final report will be prepared which includes results of summer (June) songbird surveys and fall songbird (September) and fall raptor migration surveys (August November) by December 15, 2011. BNE will file the results with the Siting Council and with the Department of Environmental Protection.
- Q13. In response to Question 22 of FairwindCT's First Set of Interrogatories, you stated "[p]re-construction field surveys will be completed during November 2011." Please confirm that these surveys are proposed for the Colebrook North site.
 - **A13.** See response to interrogatory 10.
- Q14. In response to Question 22 of FairwindCT's First Set of Interrogatories, you stated "[p]re-construction field surveys will be completed during November 2011." Please describe the nature of these "field surveys" and the methodology that will be used in the surveys and identify the entity and individuals who will conduct these surveys.
 - **A14.** See response to interrogatory 8.
- Q15. In response to Question 22 of FairwindCT's First Set of Interrogatories, you stated "[p]re-construction field surveys will be completed during November 2011." When will the results of these field surveys be reported in final form? Will those results be made public?
 - **A15.** See response to interrogatory 13.
- Q16. In his pre-filed testimony dated March 25, 2011, David Tidhar states that "additional bird studies will be completed at both Colebrook North and South between

March and November, 2011." Is Mr. Tidhar referring to the pre-construction spring migration bird surveys?

A16. See response to interrogatory 8.

Q17. In response to Question 38 of FairwindCT's First Set of Interrogatories, you provided a chart of the requested distances that included calculations for only the "alternative" location proposed for Turbine 1. Please provide the same information for the original proposed location for Turbine 1 that is reflected in your petition.

A17. The requested information is below:

Map/				Distance from Turbine to Structure				Distance from Turbine to Abutting Property Line					
Block/ Lot	Address	Acres	Property Owner	Wind Turbine 1 Alternate	Wind Turbine 1 Original	Wind Turbine 2	Wind Turbine 3	Wind Turbine 1 Alternate	Wind Turbine 1 Original	Wind Turbine 2	Wind Turbine 3		
13-28	49 Rock Hall Road	89.39560171	Jeffery W. Stauffer & Mary E. Hubbard	1,095 ft	1,845 ft	1,600 ft	1,050 ft	480 ft	1,180 ft	990 ft	153 ft		
7-5	160 Winsted- Norfolk Road	0.984449894	James F. & Judith A. Tierney	1,595 ft	840 ft	2,435 ft	2,965 ft	1,500 ft	740 ft	2,338 ft	2,862 ft		
7-6	154 Winsted- Norfolk Road	1.233023772	Thomas F. Cail	1,665 ft	975 ft	2,375 ft	2,990 ft	1,538 ft	837 ft	2,258 ft	2,845 ft		
7-10	12A Greenwoods Turnpike	3.973947253	Kristin & Benjamin Mow	1,595 ft	1,005 ft	2,170 ft	2,780 ft	1,400 ft	970 ft	1,760 ft	2,435 ft		
7-11	12B Greenwoods Turnpike	0.88543599	Walter M. Zima Jr.	1,850 ft	1,385 ft	2,165 ft	2,885 ft	1,710 ft	1,300 ft	1,980 ft	2,700 ft		
7-12	Winsted-Norfolk Road	26.97155348	William A. & Muriel T. Meeker	Vacant	Vacant	Vacant	Vacant	1,845 ft	1,460 ft	1,297 ft	2165 ft		
8-1	117 Pinney Street	145.9874673	Susan N. Wagner	4,448 ft	4,915 ft	3,195 ft	3,160 ft	1,544 ft	1,705 ft	880 ft	1,450 ft		
8-7	Pinney Street	53.40940477	Susan N. Wagner	Vacant	Vacant	Vacant	Vacant	1,815 ft	2,365 ft	525 ft	660 ft		
8-8	Pinney Street	102.4244061	Helen L. Plager - Trust	Vacant	Vacant	Vacant	Vacant	1,850 ft	2,560 ft	725 ft	530 ft		
7-2	177 Winsted- Norfolk Road	44.38850199	Northwestern CT Sportsmans	2,235 ft	1,430 ft	3,255 ft	3,680 ft	1,705 ft	900 ft	2,690 ft	3,120 ft		
7-3	112 Rock Hall Road	53.60985155	Maasser Annual Reunion Association, Inc.	1,450 ft	900 ft	2,744 ft	2,895 ft	370 ft	390 ft	1,700 ft	1,520 ft		
7-7	150 Winsted- Norfolk Road	1.106041524	Julianne & Jeffery Lepkowick	1,670 ft	1,060 ft	2,280 ft	2,911 ft	1,615 ft	990 ft	2,240 ft	2,856 ft		
13-1	Rock Hall Road	79.4722134	Christine L. Stauffer	Vacant	Vacant	Vacant	Vacant	455 ft	830 ft	1,720 ft	1,485 ft		

See also response to interrogatory 2.

Q18. In response to Question 39 of FairwindCT's First Set of Interrogatories, you provided a chart of the requested distances that included calculations for only the "alternative" location proposed for Turbine 1. Please provide the same information for the original proposed location for Turbine 1 that is reflected in your petition.

A18. The requested information is below:

Road	Approximate Distance from Western Wind Turbine (1) Alternate	Approximate Distance from Western Wind Turbine (1) Original	Approximate Distance from Southeastern Wind Turbine (2)	Approximate Distance from Northeastern Wind Turbine (3)
Flagg Hill Road	2,880 ft	1,580 ft	3,075 ft	3,875 ft
Winsted-Norfolk Road	1,645 ft	850 ft	2,540 ft	3,045 ft
Rock Hall Road	300 ft	330 ft	1,550 ft	1,400 ft
Beckley Road	5,860 ft	5,180 ft	7,085 ft	7,200 ft
Greenwoods Turnpike	2,017 ft	1,500 ft	2,325 ft	3,045 ft
Beckley Bog	7,280 ft	5,625 ft	8,025 ft	8,640 ft

See also response to interrogatory 2.

Q19. In response to Question 40 of FairwindCT's First Set of Interrogatories, you directed FairwindCT to review a response to one of the Council's interrogatories. That interrogatory did not request an explanation of your methodology or copies of calculations used. Please provide an explanation of your methodology and copies of any calculations used to measure wind speed at 100 meters.

A19. BNE has installed a Met tower on Wind Colebrook South and has been measuring the wind resources on the site for more than two years. Wind data is measured at 40, 50, and 60 meter heights on the Met tower. The wind data is extrapolated to predict wind speeds at 100 Given the close proximity to the Wind Colebrook North site and the similar topographical characteristics of the two sites, BNE is using the same wind data estimates for Wind Colebrook North. However, BNE has supplemented the wind data information that has been recorded by the Met tower with a Sodar unit that measures wind speeds by using sound waves. The advantage of the Sodar unit is that it is portable and can be moved around the property. It also measures wind speeds more accurately at higher elevations up to 120 meters. BNE has installed the Sodar unit at both the Wind Colebrook South and Wind Colebrook North locations to obtain additional wind resource information. The Sodar unit is currently installed at the Wind Colebrook North location. The data from the Sodar unit at Wind Colebrook North will be compared to data obtained from both the Met tower and Sodar unit on Wind Colebrook South to validate estimated wind resources on the site. BNE expects the wind resources to be in line with the current estimates for Wind Colebrook South. Electric Power Engineers ("EPE") conducted a wind assessment of the wind resources on Colebrook South. The report is included as an attachment to the Noise Evaluation included in Exhibit M to the petition. The calculations

used to extrapolate wind speeds at 100 meters are confidential work product of EPE. See also BNE's wind data that has been filed under seal pursuant to the protective order in place in this proceeding.

- Q20. In response to Question 41 of FairwindCT's First Set of Interrogatories, you again directed FairwindCT to review a response to one of the Council's interrogatories. That interrogatory did not ask you to provide the number of days of wind data collected at the Colebrook North site. Please provide the number of days of wind data that you have collected at the Colebrook North site, using the sodar unit or by other means.
- **A20.** The wind data collected from the Sodar unit located on the Colebrook North property is being filed under seal pursuant to the protective order in place in this petition.
- Q21. Please provide copies of all data collected from the sodar unit located on the Colebrook North property.
 - **A21.** See response to interrogatory 20.
- Q22. In response to Question 46 in FairwindCT's First Set of Interrogatories, you referred to a 13.4-month period of wind data collection and did not provide the information by days, as requested. Please provide the <u>number of days</u> on which wind speeds were lower than 3.5 m/s for the period 1/1/09 through 12/31/09 and 1/1/10 through 12/31/10, for the wind data collected and used in your Colebrook North petition.
- **A22.** See wind data that is filed under seal pursuant to the protective order in place in this petition.
- Q23. Please provide the number of hours on which wind speeds were lower than 3.5 m/s for the period 1/1/09 through 12/31/09 and 1/1/10 through 12/31/10, for the wind data collected and used in your Colebrook North petition.
 - **A23.** See response to interrogatory 20.
- Q24. Of the days on which you have collected wind data by sodar unit or other means at the Colebrook North site, how many days had wind speeds lower than 3.5 m/s? How many days had wind speeds higher than 25 m/s?
 - **A24.** See response to interrogatory 20.
- Q25. Of the hours in which you have collected wind data by Sodar unit or other means at the Colebrook North site, for how many days hours were wind speeds lower than 3.5 m/s? How many hours had wind speeds higher than 25 m/s?
 - **A25.** See response to interrogatory 20.

- Q26. Question 46 of FairwindCT's First Set of Interrogatories asked for a definition of "fall zone requirements." Your lengthy response to that interrogatory did not answer the question. Again, please define the phrase "fall zone requirements."
 - **A26.** BNE objects to this interrogatory as it was asked and answered.
- Q27. Please provide a list of all property lines, residences and related structures, roads, driveways, located within 898 feet of each proposed turbine location, including both the original and the "alternative" proposed locations for Turbine 1.
- **A27.** BNE objects to this interrogatory. The requested information has already been provided. See BNE's responses to FairwindCT's First Set of Interrogatories at Q38, 39; BNE's responses to FairwindCT's Second Set of Interrogatories at Q14, Q15. BNE further objects to this information because the information is publicly available.
- Q28. In response to Question 43 of FairwindCT's First Set of Interrogatories, you attached what appears to be three copies of the same approval letter. All three letters reference Turbine 3. Do you have approval letters for Turbines 1 and 2? If so, please provide copies. If not, have you requested them?
- **A28.** The FAA approvals are attached hereto as for turbines one and two are attached hereto as Exhibit 1.
- Q29. Do you have FAA approval for the "alternative" proposed location of Turbine 1? If not, have you requested approval?
- **A29.** No. BNE has not requested approval from the FAA for the alternative turbine location. If the Siting Council approves the alternative turbine location, BNE will refile its request for approval from the FAA for the alternative turbine location.
- Q30. Question 27 of FairwindCT's Second Set of Interrogatories contained a typographical error. Please confirm that you have provided a copy of any contract or agreement that requires you to maintain confidentiality of certain information produced or owned by GE that you have filed under seal in Petition No. 983.
- **A30.** See BNE's confidentiality agreement with GE under seal pursuant to the protective order in place in this proceeding.
- Q31. Does the confidentiality agreement between BNE and GE contain a provision excluding from protection information that has been put into the public domain through no fault of BNE?
 - **A31.** See response to interrogatory 30.

- Q32. In response to Question 31 of FairwindCT's Second Set of Interrogatories, you stated that you will be conducting a post-construction bird fatality monitoring survey. Will this survey be conducted at the Colebrook North site? Please describe the methodology of this survey, identify the entity and individuals who will be conducting the survey and state the timeframe for the survey.
- A32. A bird and bat fatality study will be completed at operational turbines at both Colebrook South and Colebrook North. A comprehensive study plan is being developed by WEST and this study plan will be distributed to the Siting Council and DEP in 2011, prior to construction of the Project. WEST has developed and implemented dozens of post-construction monitoring studies across the country. Post-construction monitoring would be completed over a two-year period following completion of all construction activities and during the operational phase of the Project. Monitoring would be completed for bird and bat fatalities through standardized carcass searches. In addition, trials to determine the level of searcher efficiency and rate of carcass removal by scavengers will be implemented. Seasonal and annualized (study period) fatality estimates will be produced using the most appropriate statistical estimator (e.g. Schoenfeld 2004 for example, see Tidhar et al 2010). BNE has not retained a firm to conduct the post-construction monitoring at the Project.
- Q33. In response to Question 31 of FairwindCT's Second Set of Interrogatories, you stated that "[a]dditional surveys will be completed at the Colebrook South site during early breeding season (mid-April to mid-May) during 2011." Does this statement refer to additional bird surveys or additional bat surveys? Does this statement mean that no additional surveys will be conducted at the Colebrook North site during this time?
- **A33.** The scope of bird surveys is described in the response to interrogatory 8. Acoustic bat surveys are also being completed at the Project during 2011 at both Colebrook North and South. Acoustic bat survey methodology was described in the final acoustic bat report prepared for Colebrook South for the 2010 study. 2011 acoustic bat surveys will be completed from approximately April 18 October 31, 2011. The final report is expected to be complete by December 15, 2011. BNE will file the results with the Siting Council and with the Department of Environmental Protection ("DEP").
- Q34. In response to Question 31 of FairwindCT's Second Set of Interrogatories, you stated that "[a]dditional bird use surveys will be completed at Colebrook South during the spring and fall migration periods of 2011." Does this statement mean that no additional bird use surveys will be conducted at the Colebrook North site during the spring and fall migration periods of 2011?
- **A34.** The reference to Colebrook South was a typographical error and should have referenced Colebrook North. See also response to interrogatory 8.
- Q35. In response to Question 38 of FairwindCT's Second Set of Interrogatories, you stated "To our knowledge only three broadwinged hawks have been documented as fatalities at 76 operating wind facilities in the US (WEST unpublished data)." Please

provide copies of that unpublished data. If you refuse to do so, please provide the names, locations, turbine type and size and time of year for the wind facilities at which those three broadwinged hawks died.

- A35. BNE objects to this interrogatory because the information is publicly available.
- Q36. In response to Question 40 of FairwindCT's Second Set of Interrogatories, you stated that "7.85 acres of forest will be permanently impacted by the Project." Does this statement refer to the acreage impacted as the project was originally proposed, or the acreage impact of the revised plans? Please provide the acreage impact and the requested graphic representation for both the original site plans and the revised site plans.
- **A36.** There are 7.85 acres of disturbed area for the site utilizing the alternative turbine location. Of the total disturbance of 7.85 acres, 3.46 acres is temporary and will be restored. This number is lower than the original clearing of 12.5 acres due to the relocation Turbine 1.
- Q37. Will Michael Klemens be conducting an on-site study for the smooth green snake at the Colebrook North site?
 - **A37.** Yes.
- Q38. Please provide the approximate date on which the results of all of Michael Klemens' on-site studies for the Colebrook North site will be reported in final form.
- **A38.** The Herpetological Assessment prepared by Dr. Klemens is expected to be filed by May 3, 2011.
- Q39. Please provide the approximate date on which the results of the "preconstruction acoustic bat surveys" being conducted by Western EcoSystems Technology, Inc. ("WEST") at the Colebrook North site will be reported in final form.
 - **A39.** See response to interrogatory 33.
- Q40. Please describe the methodology of these "pre-construction acoustic bat surveys," including but not limited to the numbers, locations and heights of the Anabat detectors that will be used.
- **A40.** Methods are described in the final 2010 Colebrook South acoustic bat report. Two Anabat detectors will be arrayed at Colebrook North between approximately April 18 October 31, 2011. In addition a single SM2Bat detector will be arrayed at the site approximately every other week during this period.
- Q41. Please provide the names and qualifications of the WEST employees who will be conducting the "pre-construction acoustic bat surveys" on the Colebrook North site.
 - **A41.** All work completed by WEST at the Project is managed by Mr. David Tidhar.

- Q42. Will the additional pre-construction bat surveys on the Colebrook North site include habitat assessment for forest-roosting bats?
 - **A42.** No.
- Q43. Will the post-construction bat fatality and acoustic monitoring on the Colebrook North site include habitat assessment for forest-roosting bats?
 - **A43.** No.
- Q44. Who will conduct the post-construction bird monitoring you propose to do at Colebrook North?
- **A44.** BNE has not retained a firm to conduct post-construction bird monitoring at this time.
- Q45. Who will conduct the post-construction bat acoustic monitoring you propose to do at Colebrook North?
- **A45.** BNE has not retained a firm to conduct post-construction bat acoustic monitoring at this time.
- Q46. Who will conduct the post-construction bat fatality monitoring you propose to do at Colebrook North?
- **A46.** BNE has not retained a firm to conduct post-construction bat fatality monitoring at this time.
- Q47. Will the results of the post-construction bird, bat fatality and bat acoustic monitoring you propose to do be made easily accessible to the general public and to local conservationists? Will the results be posted online?
- **A47.** BNE will provide all additional bird and bat reports to both the Siting Council and to the DEP.
- Q48. How many members were on the WEST field team in Connecticut for the 2010 bat and bird surveys in Colebrook? How many worked on the 2010 bird survey? How many worked on the 2010 bat acoustic surveys?
- **A48.** A single field technician completed all 2010 field surveys at Colebrook South. A team of data analysts and biologists completed data analysis and reporting for 2010 surveys.
- Q49. In response to Question 48 of FairwindCT's Second Set of Interrogatories, you stated that Jeff Gruver, who led West's acoustic bat analysis, "has completed at least an estimated 100 acoustic bat analyses for proposed and existing wind facilities." Of those 100 projects, how many included Anabat monitoring conducted on a met tower? Of those

projects that included Anabat monitoring conducted on a met tower, how many resulted in damage to the meteorological equipment?

- **A49.** The number of acoustic bat studies Mr. Gruver has been involved in for WEST is estimated at greater than one hundred. The study designs have been mixed some studies have included both elevated and ground-based detectors, others have included ground-based units only and others have included elevated units only. When the project owner is concerned about damage to Met towers, anabats have not been elevated, thereby avoiding damage to the Met tower by avoiding the installation to begin with.
- Q50. Did Jeff Gruver personally conduct any component of the bat acoustic setup or call analysis at the Colebrook Wind Resource Area ("CWRA")?

A50. Yes.

- Q51. In response to Question 51 of FairwindCT's Second Set of Interrogatories, you stated that the sensitivity levels of the Anabat detectors were set at 5.5 or 6, "[d]epending on the environment in which the unit was placed." Please explain this statement.
- **A51.** As described in the report, depending on the environment in which the unit was placed, a sensitivity level of 5.5 or six was used to reduce interference from sources of ultrasonic noise other than bats (wind and insects). Sensitivity levels were adjusted during the study based on QA/QC review of the data during the study. In other words, as the study progressed, the bat biologist determined that adjusting the sensitivity level would reduce noise interference and that the settings should be set during the next monitoring week to either 5.5 or 6.0.
- Q52. In response to Question 56 of FairwindCT's Second Set of Interrogatories, BNE states that the SM2Bat unit was placed at the edge of the beaver pond because "[o]pen water is considered a feature attractive to bats for foraging, and placement of the SM2Bat unit at this location increased potential for recording bat species that may occur in the Project area." Given this statement, why did WEST claim in its interim report (Petition, Exhibit L) that the "CWRA is not in the vicinity of any known bat colonies or features likely to attract large numbers of bats" (emphasis added)?
- **A52.** The characterization used referred to major hibernacula, over-wintering habitat, or caves which could support large numbers of bats in a small spatial area. The statement did not imply that no bat habitat was present at the site. The site is situated in a landscape which contains features such as beaver ponds and woody wetlands, however, the area surrounding the site also contains such features. Therefore, the site does not contain unique bat habitats relative to the surrounding landscape.
- Q53. In response to Question 57 of FairwindCT's Second Set of Interrogatories, BNE lists the Cape Vincent Wind Project in New York as a site that used a similar acoustic monitoring protocol during the pre-construction site assessment. Please provide

details of the sampling protocol at that site, including the timing of the survey, the sampling height of acoustic monitors, and the total sampling effort (in detector-nights).

- **A53.** BNE objects to this interrogatory because the information requested is publicly available.
- Q54. In response to Questions 58, 59 and 60 of FairwindCT's Second Set of Interrogatories, you objected on the basis that this project need not comply with the preconstruction monitoring guidelines in place in Pennsylvania, New York and New Jersey. Please confirm that you did not consult out-of-state pre-construction monitoring guidelines, despite the absence of such guidelines in Connecticut.
- **A54.** BNE objects to this interrogatory because the question has been asked and answered. Specifically, BNE does not need to comply with guidelines from the states of Pennsylvania, New York or New Jersey since the Wind Colebrook South project is not located in any of those states.
- Q55. Given that BNE claims that the data analysis approach used at the CWRA is similar to other monitoring projects conducted at wind development sites, please provide a citation for any acoustic monitoring project in the eastern United States that was not conducted by WEST and that uses the MF acoustic group.
- **A55.** BNE objects to this interrogatory because the information requested is publicly available.
- Q56. Please provide the complete citation for "Brooks (2011)" referenced in response to Question 65 of FairwindCT's Second Set of Interrogatories.
- **A56.** BNE objects to this interrogatory because this question has been asked and answered. Subject to this objection and without waiving the same, BNE responds as follows: Brooks, R.T. 2011. Declines in summer bat activity in central New England 4 years following the initial detection of white-nose syndrome. Biodiversity and Conservation, Published online 28 January 2011. DOI 10.1007/s10531-011-9996-0.
- Q57. In response to Questions 74, 76, 77, 78 and 79 of FairwindCT's Second Set of Interrogatories, you stated that you have committed to complete post-construction bat fatality monitoring and post-construction acoustic monitoring surveys, but did not specify the location of that post-construction work. Please confirm that the post-construction fatality monitoring and acoustic monitoring will be conducted at the Colebrook North site.
- **A57.** BNE will conduct post-construction fatality monitoring and post-construction acoustic monitoring surveys at the Colebrook North site.
- Q58. In response to Question 74 of FairwindCT's Second Set of Interrogatories, you stated twice: "Importantly, the study was completed during the period in which most

bat fatalities have been documented as wind turbine collisions and the period in which bat activity is greatest." Please point us to literature or guidelines that indicate the period of time in which you conducted your bat acoustic monitoring survey was the appropriate period of time for such a survey.

- **A58.** See FAC recommendations 2010, see NWCC 2010 for broad-scale assessment of seasonal patterns of bat fatalities and references; see for example Arnett et al 2008 or Young et al 2010, or Tidhar et al 2010 for results of regional fatality monitoring results at specific projects where this trend has been observed.
- Q59. In response to Question 79 in FairwindCT's Second Set of Interrogatories, which asked you to justify why no bat activity monitoring was conducted at the Colebrook North site given the presence of a perennial flowing water system and large diameter hardwood trees that are not present at the Colebrook South site, you confirmed that no such monitoring was done in 2010 and again referred to the monitoring that will be done at a later date. Please provide a response to the question by explaining why you did not conduct monitoring at the Colebrook North site in 2010.
- **A59.** See BNE's responses to interrogatories 74 and 75 of FairwindCT's Second Set of Interrogatories dated March 25, 2011.
- Q60. Please confirm that the revised site plans, stormwater management plan and erosion and sediment control plan attached to the prefiled testimony of Curtis Jones are the plans for which BNE is seeking the Council's approval.
- **A60.** BNE objects to this interrogatory because it seeks a legal conclusion. Subject to this objection and without waiving the same, BNE responds as follows: see response to interrogatory 2.
- Q61. If you are still seeking approval for the site plans, stormwater management plan and erosion and sediment control plan included in Exhibits F, G and H to the petition, please respond to Questions 91-99, 100-101, 103-106, 108-111, 117-120, 122, 124-129, 131-134, 136-139 and 141 of FairwindCT's Second Set of Interrogatories based on the site plans in Exhibit F.
 - **A61.** See response to interrogatory 2.
- Q62. If you are no longer seeking approval for the site plans, stormwater management plan and erosion and sediment control plan included in Exhibits F, G and H, why have you not withdrawn those exhibits from your petition?
- **A62.** BNE objects to this interrogatory because it seeks a legal conclusion. Subject to this objection and without waiving the same, BNE responds as follows: see response to interrogatory 2.

- Q63. Does your response to Question 86 of FairwindCT's Second Set of Interrogatories refer to the original site plans or the revised site plans? Please provide a response for both the original site plans and the revised site plans.
- **A63.** Response to Q86 refers to the plans attached to the pre-filed testimony of Curtis Jones. See also response to interrogatory 2.
- Q64. Does your response to Question 89 of FairwindCT's Second Set of Interrogatories refer to the original site plans or the revised site plans? Please provide a response for both the original site plans and the revised site plans.
- **A64.** Response to Q89 refers to the plans attached to the pre-filed testimony of Curtis Jones. See also response to interrogatory 2.
- Q65. Does your response to Question 98 of FairwindCT's Second Set of Interrogatories refer to the original site plans or the revised site plans? Please provide a response for both the original site plans and the revised site plans.
- **A65.** Response to Q98 refers to the plans attached to the pre-filed testimony of Curtis Jones. See also response to interrogatory 2.
- Q66. Does your response to Question 107 of FairwindCT's Second Set of Interrogatories refer to the original site plans or the revised site plans? Please provide a response for both the original site plans and the revised site plans.
- **A66.** Response to Q107 refers to the plans attached to the pre-filed testimony of Curtis Jones. See also response to interrogatory 2.
- Q67. Does your response to Question 119 of FairwindCT's Second Set of Interrogatories refer to the original site plans or the revised site plans? Please provide a response for both the original site plans and the revised site plans.
- **A67.** Response to Q119 refers to the plans attached to the pre-filed testimony of Curtis Jones. See also response to interrogatory 2.
- Q68. Does your response to Question 131 of FairwindCT's Second Set of Interrogatories refer to the original site plans or the revised site plans? Please provide a response for both the original site plans and the revised site plans.
- **A68.** Response to Q131 refers to the plans attached to the pre-filed testimony of Curtis Jones. See also response to interrogatory 2.
- Q69. Does your response to Question 132 of FairwindCT's Second Set of Interrogatories refer to the original site plans or the revised site plans? Please provide a response for both the original site plans and the revised site plans.

- **A69.** Response to Q132 refers to the plans attached to the pre-filed testimony of Curtis Jones. See also response to interrogatory 2.
- Q70. In response to Question 13 of the Council's Pre-Hearing Interrogatories, Set One, you stated that "BNE is following GE's recommended setbacks for wind turbines adjacent to uninhabited land to ensure that the rotor blades are entirely on BNE property." Does GE have different recommended setbacks for wind turbines adjacent to uninhabited property than it does for inhabited property? If so, please explain how the recommendations differ and how GE defines "uninhabited" and "inhabited."
- **A70.** See GE's setback recommendations filed under seal pursuant to the protective order in place in this proceeding.
- Q71. Please provide GE's recommended setbacks for uninhabited land discussed in the preceding question and referenced in your response to the Council's interrogatories.
 - **A71.** See response to interrogatory 70.
- Q72. Question 25 in the Council's Pre-Hearing Interrogatories, Set One, asked you the "approximate distance that parts of the blades could be thrown from a turbine" and asked you to provide calculations regarding that distance. You did not provide that information in your lengthy response. Please do so.
- **A72.** GE's recommended setbacks take into consideration the possibility of blade damage.
- Q73. Does the "final" bat report attached to the prefiled testimony of David Tidhar replace the "interim" bat report attached to the petition as Exhibit L? If so, why have you not withdrawn Exhibit L from your petition?
 - **A73.** BNE objects to this interrogatory because it seeks a legal conclusion.
- Q74. In Question 5 of Mr. Tidhar's prefiled testimony, he refers to "bat fatality patterns" observed during post-construction monitoring projects "[a]t operating commercial wind-energy facilities located within the region within similar forest dominated landscapes (e.g., Noble Ellenberg NY, Noble Clinton NY, Maple Ridge NY, Lempster NH, Stetson Mountain ME and Mars Hill ME)." For each of those six listed facilities, please provide the type, height and number of the turbines located on the site and please provide the approximate dates of the post-construction monitoring studies referenced.
- **A74.** BNE objects to this interrogatory because the requested information is publicly available.

- Q75. Please provide the information regarding "the equipment used to transport the components to the erection location and their specific requirements for the road surface and the clearances required" and "the cranes used for the erection and installation process" reviewed by Curtis Jones and referenced in his prefiled testimony.
- A75. The information regarding the equipment used to transport the wind turbine components and the clearances required was obtained from a confidential GE document that has been filed under seal pursuant to the protective order in place in this petition. The information regarding the cranes was obtained from a document prepared by Liebherr entitled 'Supplement to Technical Data Sheet LR 1600/2. A copy is attached hereto as Exhibit 2.
- Q76. Please identify the "[c]onstruction companies with experience in the erection and installation of wind turbines" and "transportation engineering firms providing modeling assistance for blade transport vehicles" consulted by Mr. Jones or other BNE representatives, as referenced in Mr. Jones' prefiled testimony, and please provide copies of the information provided by those companies and firms.
- A76. Delaney Construction was consulted for their extensive experience in installing wind turbines and expertise with cranes necessary for the construction of the wind turbines. Delaney is a leading construction company that has completed construction services for clients on 19 wind construction projects, valued at more than \$340 million, in the past two years. These projects support nearly 1,700 MW of power, over 1,000 foundations, and over 600 turbines installed in states including New York, Alaska, Wyoming, Kansas, Oklahoma, Washington, Texas, Idaho and Oregon. Transoft Solutions from Richmond, British Columbia was consulted for their expertise in developing and providing software solutions for modeling the requirements of the blade transport vehicles within the site.
- Q77. What studies or assessments have been conducted by BNE regarding the capacity of the local town roads, including Rock Hall Road, to bear the weight of the loads associated with transporting and delivering the turbine components and all associated equipment, such as cranes?
- **A77.** GE will be responsible for all transportation requirements for transporting the wind turbines and the Delaney Group will be responsible for all transportation requirements for transporting the supporting equipment such as cranes to the site. It is likely that Rock Hall Road will require some reconstruction in order to permit the delivery of the wind turbine components. Geotechnical studies will be required to evaluate the extent and nature of the measures which will be required.
- Q78. Please provide computations showing post-development peak flows at the wetland crossing for the 2-, 10-, 25-, 50- and 100-year storms, as well as the capacity of the culvert to accommodate those flows.
 - **A78.** BNE objects to this interrogatory because it requests confidential work product.

- Q79. Please provide a drainage area map and calculation of the existing and proposed drainage areas tributary to the proposed wetland crossing.
- **A79.** A drainage area map with the areas tributary to the proposed wetlands crossing is attached here to as Exhibit 3.
 - Q80. Where will sanitary and storage facilities be located for the site?
 - **A80.** BNE is not proposing any sanitary or storage facilities for this site.
- Q81. Please reconcile the discrepancy between the statements in the petition that the site will be returned to its pre-construction state and the permanent changes shown on the post-construction grading and restoration plans.
- **A81.** The site will be returned to the pre-construction conditions to the maximum extent possible. Disturbed earth areas will be restored following construction with New England Conservation/Wildlife Mix, a native herbaceous seed mixture that will form a permanent, maintenance free cover of grasses, forbs, wildflowers and legumes. This seed mixture will provide erosion control and wildlife habitat value. Areas in proximity to the turbine bases will be mowed to facilitate maintenance access. Remaining areas will not be maintained and allowed to revert to forest through the natural process of succession.
- Q82. Please provide the deep soil testing and infiltration rate data required by the 2004 Stormwater Quality Manual for the proposed stormwater treatment facilities.
- **A82.** BNE objects to the question as it improperly characterizes the 2004 Stormwater Quality Manual. The introduction to the 2004 Stormwater Quality Manual states that "[t]he information and recommendations in this Manual are provided for guidance and are intended to augment, rather than replace, professional judgment." Emphasis added. Therefore there are no requirements as suggested in this question. Subject to this objection and without waiving the same, it is anticipated that appropriate geotechnical investigations will be conducted during the anticipated Development and Management ("D&M") phase of this project if the project is approved by the Siting Council.
- Q83. Please provide documentation demonstrating that the design assumptions for the erosion control and stormwater management measures shown on the plans.
- **A83.** BNE objects to this interrogatory because it requests confidential work product. Subject to this objection and without waiving the same, the calculations for the erosion control and storm water management measures are shown in Appendix K of the 'Stormwater Management Plan with Stormwater Pollution Prevention Plan' as well as Appendix A of the 'Erosion and Sediment Control Plan' both prepared by Civil 1 and dated March 2011
- Q84. What is the reasonable area around the proposed tower, laydown and assembly areas that must be cleared and/or graded to allow for the construction activities

(Sheet C-500)? Note that this question does <u>not</u> ask you to provide the entire cleared area on the site.

- **A84.** The limits of clearing for each of the turbine locations is depicted on Sheet C-003 of the plans.
- Q85. What is the width of the right of way that must be cleared and maintained to install the overhead electric lines from Rock Hall Road to the collector yard? Please confirm that this was not accounted for in the disturbed area calculations.
- **A85.** BNE has not yet finalized its interconnection agreement with Connecticut Light and Power. BNE does not expect there to be any overhead electric lines on the site to the point of interconnection on CL&P's distribution system.
- Q86. Which plan sheets show the grading, outlet controls and energy dissipation devices for the permanent stormwater basins?
- **A86.** Sheets C-400, C-401, C-402, depict the grading, outlet controls and energy dissipation devices for the permanent stormwater basins. The details for the outlet control structures are shown on Sheet C-503.
- Q87. What criteria and design storm were used to design the permanent diversions shown on the plans? Please direct us to the calculations that demonstrate that the diversions meet the requirements of the 2002 Erosion and Sediment Control Guidelines.
- **A87.** BNE objects to the question as it improperly characterizes the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control. The introduction to the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control states that "the Guidelines are a useful reference for projects that require erosion and sediment control planning." Emphasis added. There is no mention of requirements as suggested in this question. Subject to this objection and without waiving the same, the calculations for the permanent diversions are contained within Appendix A of the Erosion and Sediment Control Plan prepared by Civil 1 dated March 2011.
- Q88. Why do the roadside ditch check dams still fail to meet the design criteria of the 2002 Erosion and Sediment Control Guidelines?
- **A88.** BNE objects to this interrogatory as it is improperly conclusory. Subject to this objection and without waiving the same, there are no roadside ditch check dams.
- Q89. Do the drainage computations account for reduced infiltration capacity of the crane road and access road due to compaction by heavy vehicle traffic?
 - **A89.** Yes.

- Q90. How much material will be imported to the site and how much will be exported, in terms of the amount of process stone, aggregate, gravel, sand and special soil mixes that will be required to construct the stormwater treatment basins? Please note that this question is <u>not</u> asking for the net cut and fill needed. Has this volume of material been included in the calculations of the truck traffic required to complete construction?
- **A90.** The final design of the stormwater treatment basins will be done during the anticipated D&M phase if the Siting Council approves the project. The final design is a prerequisite to calculate the amount of materials and as such this information is not presently available.
- Q91. Please explain the note "excludes segregated runoff" in the water quality volume tables in Appendix D of the 3.14.2011 revised Stormwater Management Plan.
- **A91.** This question erroneously refers to the Stormwater Management Plan for Petition #983. No such reference is made in the Stormwater Management Plan for Petition #984.
- Q92. The sizing calculations for the temporary sediment traps appear to be based on several assumptions. Please provide documentation as to the validity of the assumed design parameters.
 - **A92.** BNE objects to this interrogatory because it is vague and ambiguous.
- Q93. The design calculations for the permanent diversions appear to be based on several assumptions. Please provide documentation as to the validity of the assumed design parameters.
 - **A93.** BNE objects to this interrogatory because it is vague and ambiguous.

BNE ENERGY INC.

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Certification

This is to certify that a copy of the foregoing has been mailed this date to all parties and intervenors of record.

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ACTIVE/72955.6/CLARSON/2448987v1

EXHIBIT 1



Issued Date: 12/16/2010

Gregory Zupkus BNE Energy Inc 38 Colonial Drive Prospect, CT 06712

** DETERMINATION OF NO HAZARD TO AIR NAVIGATION **

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Wind Turbine Wind Colebrook North Turbine 1

Location: Colebrook, CT

Latitude: 41-58-30.45N NAD 83

Longitude: 73-08-25.33W

Heights: 492 feet above ground level (AGL)

1751 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

As a condition to this Determination, the structure is marked and/or lighted in accordance with FAA Advisory circular 70/7460-1 K Change 2, Obstruction Marking and Lighting, 24-hr med-strobes - Chapters 4,6(MIWOL),&12.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be completed and returned to this office any time the project is abandoned or:

	At least 10 days prior to start of construction (7460-2, Part I)
X	Within 5 days after the construction reaches its greatest height (7460-2, Part II)

This determination expires on 06/16/2012 unless:

- (a) extended, revised or terminated by the issuing office.
- (b) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO

SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

Additional wind turbines or met towers proposed in the future may cause a cumulative effect on the national airspace system. This determination is based, in part, on the foregoing description which includes specific coordinates and heights. Any changes in coordinates will void this determination. Any future construction or alteration requires separate notice to the FAA.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (404) 305-7081. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2010-WTE-14633-OE.

Signature Control No: 132501298-134500645 (DNE -WT)

Michael Blaich Specialist



Issued Date: 12/16/2010

Gregory Zupkus BNE Energy Inc 38 Colonial Drive Prospect, CT 06712

** DETERMINATION OF NO HAZARD TO AIR NAVIGATION **

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Wind Turbine Wind Colebrook North Turbine 2

Location: Colebrook, CT

Latitude: 41-58-29.64N NAD 83

Longitude: 73-07-59.98W

Heights: 492 feet above ground level (AGL)

1801 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

As a condition to this Determination, the structure is marked and/or lighted in accordance with FAA Advisory circular 70/7460-1 K Change 2, Obstruction Marking and Lighting, 24-hr med-strobes - Chapters 4,6(MIWOL),&12.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be completed and returned to this office any time the project is abandoned or:

	At least 10 days prior to start of construction (7460-2, Part I)
X	Within 5 days after the construction reaches its greatest height (7460-2, Part II)

This determination expires on 06/16/2012 unless:

- (a) extended, revised or terminated by the issuing office.
- (b) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

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This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (404) 305-7081. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2010-WTE-14634-OE.

Signature Control No: 132501300-134500643 (DNE -WT)

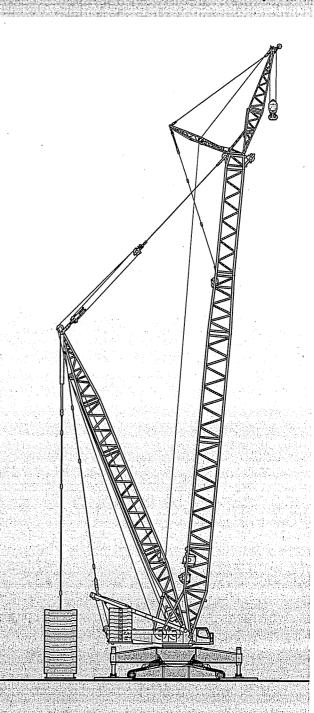
Michael Blaich Specialist

EXHIBIT 2

Raupenkran Crawler Crane LR 1600/2-W Grue sur chenilles Gru dingolata

Grúa sobre cadenas · Гусеничный кран

Zusatzblatt zum technischen Datenblatt LR 1600/2 Supplement to technical data sheet LR 1600/2 Supplément au descriptif LR 1600/2 - Supplemento ai dati tecnici LR 1600/2 Suplemento a datos técnicos LR 1600/2 · Дополнительное описание LR 1600/2



Inhaltsverzeichnis Table of content Tables des matières · Indice Contenido · Оглавленне

Technische Daten	
Technische Beschreibung	
Maße	
Winden, Geschwindigkeiten, Hakenflaschen, Einscherplan	[10] C. Martin, Phys. Rev. B 50, 107 (1995); Super-phys. 12, 122 (1995); Const. L.
Transportplan	15_1
Auslegersysteme	and a maximum for the state of
Traglasten am SLF-Ausleger	19-2:
Traglasten am SL3F-Ausleger	$\frac{24-2!}{2}$
Traglasten am SL2DF/SL2DFB-Ausleger	30-3
Traglasten am SL4DF/SL4DFB-Ausleger	35 – 3
Traglasten am SL-Ausleger	40 – 4
Traglasten am SLD/SLDB-Ausleger	42-44
Traglasten am SL2D/SL2DB-Ausleger	45 – 47
Traglasten am S-Ausleger	48 – 49
Traglasten am SD/SDB-Ausleger	50 – 52
Anmerkungen zu den Traglasttabellen	50
Technical Data	
Technical description Dimensions	Politica sup la compostato de presencia de como como como como como como como com
	10 - 13
Winches, Working speeds, Hook blocks, Reeving chart Transportation plan	14
Boom/jib combinations	M. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
Lifting capacities on SLF boom	. 17 → 18 - The Company of the Salar Hours of the Salar Marie (1994) (1994) (1994) (1994) (1994) (1994) (1994) (1994) (19
Lifting capacities on SL3F boom	19 – 23
Lifting capacities on SL2DF/SL2DFB boom	24 – 29
Lifting capacities on SL4DF/SL4DFB boom	30 – 34 35 – 39
Lifting capacities on SL boom	40 – 41
Lifting capacities on SLD/SLDB boom	42 – 44
Lifting capacities on SL2D/SL2DB boom	45 – 47
Lifting capacities on S boom	and the constraint of the constraint ~ -7 .
Lifting capacities on SD/SDB boom	/50 - 52
Remarks referring to load charts	53
Caractéristiques techniques	and the state of t
Description téchniques	Security of apple with the property of the security of the sec
Encombrement	10 – 13
Treuils, Vitesses, Moufles à crochet, Tableau de mouflage	14
Plan de transport	15 – 16
Configurations de flèche	17 – 18
Forces de levage en configuration SLF	1 19−23
Forces de levage en configuration SL3F	24 – 29
Forces de levage en configuration SL2DF/SL2DFB	30 – 34
Forces de levage en configuration SL4DF/SL4DFB	35 – 39
Forces de levage à la flèche principale SL	55 E 5 E 5 E 5 E 5 E 5 E 5 E 5 E 5 E 5
Forces de levage en configuration SLD/SLDB	42 – 44
Forces de Jevage en configuration SL2D/SL2DB	::::::::::::::::::::::::::::::::::::::
Forces de levage à la flèche principale S	48 – 49
Forces de levage en configuration SD/SDB	50 – 52
Remarques relatives aux tableaux des charges	53

Inhaltsverzeichnis Table of content Tables des matières · Indice Contenido · Оглавление

Dati tecnici	
Descrizione tecnica	
Dimensioni	10⊕1:
Argani, Velocità, Bozzello, Piano per armatura funi	
Piano di trasporto	75-16
Sistema braccio	17 – 18
Portate con sistema braccio SLF	19 – 23
Portate con sistema braccio SL3F	24 – 29
Portate con sistema braccio SL2DF/SL2DFB	30 – 34
Portate con sistema braccio SL4DF/SL4DFB	35 – 30
Portate con sistema braccio SL	40 – 4
Portate con sistema braccio SLD/SLDB	42 - 44
Portate con sistema braccio SL2D/SL2DB	45 – 47
Portate con sistema braccio S	48 – 49
Portate con sistema braccio SD/SDB	50 – 52
Note alle tabelle di portata	56
Datos técnicos	
	and the second s
Descripción técnica	
Dimensiones Cohrectories Value Parts	10-13
Cabrestantes, Velocidades, Pastecas, Esquema de reenvios Esquema de transporte	14
Sistemas de pluma	15 – 16 – 16 – 16 – 16 – 16 – 16 – 16 –
Tablas de carga con sistema de pluma SLF	17 – 1 8
Tablas de carga con sistema de pluma SL3F	19 – 23
Tablas de carga con sistema de pluma SL2DF/SL2DFB	24 – 29
Tablas de carga con sistema de pluma SL4DF/SL4DFB	30 – 34
Tablas de carga con sistema de pluma SL	35 – 39 40 – 41
Tablas de carga con sistema de pluma SLD/SLDB	42 – 44
Tablas de carga con sistema de pluma SL2D/SL2DB	.45 - 47
Tablas de carga con sistema de pluma S	#####################################
Tablas de carga con sistema de pluma SD/SDB	50 - 52
Observaciones referentes a las tablas de carga	53
Технические данные	i kanan wasan she a ka 14.2 ka 15 ka 15 ka 16 ka 1
Технческое описание Габариты крана	9 Transaction is a transaction of the property of
And the control of th	10 – 13
Лебедки, Скорости, Крюковые подвески, Схема запасовки Транспортная схема	
Тралопортная схема Стреловые системы	15 – 16 – 16 – 16 – 16 – 16 – 16 – 16 –
Грузоподъемность на стреловой системе SLF	17 – 18
Грузоподвенность на стреловой системе SL3F	19 - 23
Грузоподвемность на стреловой системе SL2DF/SL2DFB	24 – 29
Грузоподъемность на стреловой системе SL2DF/SL2DFB Грузоподъемность на стреловой системе SL4DF/SL4DFB	30 – 34
грузоподъемность на стреловой системе SL4DF/SL4DFB	35 – 39
Грузоподъемность на стреловой системе SLD/SLDB	40 - 41
грузоподъемность на стреловой системе SL2D/SL2DB Грузоподъемность на стреловой системе SL2D/SL2DB	42 – 44 72 – 42 – 42 – 42 – 42 – 42 – 42 – 42 –
Грузоподъемность на стреловой системе S	45 – 47
Грузоподъемность на стреловой системе SD/SDB	48 – 49 50 – 50
Примечани к таблицам грузоподъемности	50 - 52 53
THE PROPERTY OF THE PROPERTY O	a delicitario esta de la comparta d

	600 t bei 11 m Ausladung. SDB – System mit S 48 m.
Max. Lastmoment	8.085 tm – 385 t bei 21 m Ausladung. SDB – System mit S 42 m.

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Fahrwerk Liebherr-Raupenfahrwerk, bestehend aus einem Mittelstück und zwei Raupenträgern mit Raupenplatten 2 m und 4-fach Antrieb.

Raupenmittelteil

Schmales Raupenmittelteil	Für Spurbreite 5,8 m. Quick Connection Mittelteil-Kranabstützung.
Kranabstützung	Hydraulisch schwenkbare Abstützholme mit Stützzylindern. Abstützbasis bei Kranbetrieb: 14 m x 14 m. Automatisches Nivellieren. Quick Connection Kranabstützung-Drehbühne.
Abstützplatten	Abstützplatten (4,24 m x 2,4 m x 0,25 m) bleiben beim Verfahren angebaut.
Laufstege	Rundum Laufstege mit elektr. betätigter Aufstiegsleiter.
Fernbedienung	Zum Verfahren der Raupe und Betätigung der

Abstützungen.

Kranoberwagen

Drehbühnenrahmen	Liebherr-Drehbühnenrahmen, bestehend aus Drehbühne mit Winde IV und abnehmbaren A-Bock, verbunden mit dem Raupenmittelteil über eine Rollendrehverbindung mit Quick Connection.
Sicherheitsein- richtungen	Hubendschalter, Sicherheitsventile gegen Schlauch- und Rohrbruch, Seiltrommel-End- schaltung mit 3 Sicherheitswindungen. Wind- warnanlage. Elektronische Neigungsanzeige. Flugwarnleuchte,
Kamera- Überwachung	2 Farbmonitore, 3 Kameras für Winden- und Heckbereich.
Gegengewicht	2 Konsolen mit je 5 t. Gesamtgegengewicht

von 600 t. Auslegerlänge S 24 m - S 96 m. Auslegerlänge SDB 36 m - SDB 144 m mlt Derricksystem. Hauptausleger SL System 2825/2420 mit Kopfstück für max. Tragkraft von 600 t. Auslegerlänge SL 54 n SL 102 m. Auslegerlänge SLDB 54 m - SLDB 138 m mit Derricksystem Feste Gitterspitze F System 1916 mit Kopfstück für max. Tragk von 137 t anbaubar unter 10°, 15° und 30°	Auslegersy:	iteme .
Tragkraft von 600 t. Auslegerlänge SL 54 n SL 102 m, Auslegerlänge SLDB 54 m – SLDB 138 m mit Derricksystem Feste Gitterspitze F System 1916 mit Kopfstück für max. Tragk von 137 t anbaubar unter 10°, 15° und 30°	Hauptausleger S	Auslegerlänge SDB 36 m – SDB 144 m mit
von 137 t anbaubar unter 10°, 15° und 30°	Hauptausleger SL	Tragkraft von 600 t. Auslegerlänge SL 54 m – SL 102 m. Auslegerlänge SLDB 54 m –
	Feste Gitterspitze F	System 1916 mit Kopfstück für max. Tragkraft von 137 t anbaubar unter 10°, 15° und 30°. Auslegerlänge F 12 m – F 36 m.
Derricksystem D System 2420 einschließlich Abspannstange D 30 m – D 36 m, für Derrickbetrieb ist die Winde III erforderlich.	Derricksystem D	
Ballastpalette B Für max. Derrickballast von 350 t und stufer los variable Radien von 10 m – 18 m.	Ballastpalette B	Für max. Derrickballast von 350 t und stufen- los variable Radien von 10 m – 18 m.
Derrickballast Platten mit Gesamtgewicht von 350 t.	Derrickballast	Platten mit Gesamtgewicht von 350 t.

Zusatzausrüstung auf Anfrage.

Winde II

Winde III

Winde VI

Mastnase 36 t

Serienausrüstung und Optionen entsprechend aktueller Preisliste.

Zum Anbau am S, SL Kopf,

Verstellung Hauptausleger/Derrickbetrieb

2. Hubwinde.

Hilfshubwerk.

Max, capacity	600 t at 11 m radius SDB – System with S 48 m.
Max. load moment	8.085 tm – 385 t at 21 m radius. SDB – System with S 42 m

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Crawler chassis

Liebherr crawler chassis consisting of one centre section and two crawler carriers with crawler plates 2 m and quadruple drive.

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Narrow crawler centre section	For track gauge of 5.8 m. Quick Connection center section-crane supporting equipment.
Crane supporting equipment	Hydraulic slewing outriggers with supporting rams. Supporting basis at crane operation: 14 m x 14 m. Automatic levelling, Quick Connection crane supporting equipment-superstructure.
Supporting slabs	Supporting slabs (4.24 m x 2.4 m x 0.25 m) remain fixed during displacement.
Catwalks	All-round catwalks with electr. operated access ladder.
Remote control	For displacement of the crawler and

actuation of the supporting equipment.

Crane superstructure

	et en trades parties and trades and a sign
Superstructure frame	Liebherr-slewing platform frame, consisting of slewing platform with winch IV and removable A-frame, connected to the centre section by a roller slewing bearing with Quick Connec- tion.
Safety devices	Hoist limit switch. Safety valves against hose and pipe rupture. Drum switch limit at 3 rest layers. Wind speed gauge. Electronic inclination indicator. Aircraft warning control light.
Camera observation	2 colour-screens, 3 cameras for winches and rear area.
Counterweight	2 brackets 5 t each. Total counterweight at superstructure 190 t. 18 ballast plates 10 t each (option),

Boom syste	m
Main boom S	System 2825 with head section for max. 600 t load capacity. Boom length S 24 m - S 96 m. Boom length SDB 36 m - SDB 144 m with derrick system.
Main boom SL	System 2825/2420 with head section for max. 600 t load capacity. Boom length SL 54 m – SL 102 m. Boom length SLDB 54 m – SLDB 138 m with derrick system.
Fixed lattice fly jib F	System 1916 with head section for max. capacity of 137 t, attachable at 10°, 15° and 30°, jib lengths F 12 m – F 36 m.
Derrick system D	System:2420 including guy rods. D 30 m – D 36 m, winch III is needed for all derrick operations.
Counterweight frame B	For max, derrick counterweight of 350 t, for Infinitely variable radius from 10 m - 18 m.
Derrick- Counterweight	Plates for a total weight of 350 t.
Winch II	Second hoist winch.
Winch III	Reeving main boom / Derrick operation.
Winch VI	Auxiliary hoist gear.
Whip line 36 t	To be mounted on the S, SL-boom head.

Other items of equipment available on request. Standard equipment and options according to effective price list.

Capacité max.	600 t pour une portée de 11 m. Système SDB avec S 48 m.
Couple de charge max.	8.085 tm – 385 t pour une portée de 21 m. Système SDB avec S 42 m.

Train de chenilles

Mécanisme de translation

Le train de chenilles Liebherr est composé d'une partie centrale et de deux longerons avec patins de chenilles 2 m et un entraînement à 4 positions.

Partie centrale

Partie centrale du train de roulement étroite

Pour largeur de voie 5,8 m. Quick Connection.

Calage de la grue - partie centrale.

Calage de la grue

Poutres de calage à orientation hydraulique avec vérins de calage. Base de calage en cas d'état d'équipement de grue ; 14 m x 14 m. Mise à niveau automatique.

Quick Connection calage de la grue - partie

tournante.

Les patins de calage (4,24 m \times 2,4 m \times 0,25 m) Patins de calage restent montés pendant le déplacement.

Passerelles

Passerelles périphériques dotées d'une échelle d'accès actionnée électriquement.

Commande à distance

Pour le déplacement des chenilles et l'actionnement des stabilisateurs.

Partie tournante

			de			
			nt			

Le cadre de la partie tournante Liebherr est composé de la partie tournante avec treuil IV et du chevalet démontable A, Il est relié à la partie centrale du train de roulement par une couronne d'orientation à rouleaux.

Dispositifs de sécurité

Interrupteur de fin de course. Clapets de sécurité contre les ruptures de tuyaux et de flexibles. Coupure de fin de course du tambour avec 3 enroulements de sécurité. Anémomètre de sécurité. Inclinomètre électronique. Balise aérienne.

Contrôle vidéo

2 écrans couleur, 3 caméras pour la zone de treuils et la partié arrière.

Contrepoids 2 consoles de 5 t chacune. Contrepoids total 190 t. 18 plaques de lest à 10 t (option).

Système de flèche

Flèche principale S

Système 2825 avec élément de tête pour une capacité max. de 600 t. Longueur de la flèche S 24 m - S 96 m. Longueur de la flèche SDB 36 m - SDB 144 m avec système derrick.

Flèche principale SL

Système 2825/2420 avec élément de tête pour une capacité max. de 600 t. Longueur de la flèche SL 54 m - SL 102 m. Longueur de la flèche SLDB 54 m – SLDB 138 m avec système. derrick.

Fléchette treillis fixe F

Système 1916 avec élément de tête pour une capacité max. de 137 t, montage possible sous 10°, 15° et 30°. Longueurs de flèche F 12 m - F 36 m.

Système derrick D

Le système 2420 comprend des tirants. D 30 m - D 36 m, le treuil III est nécessaire au mode derrick.

Palette de lest B

Pour un contrepoids derrick max. de 350 t et rayons variables progressivement de 10 m -

Contrepoids derrick Plaques de poids total de 350 t.

Treuil II

de måt 36 t

2. treuil de levage. Treuil III Réglage flèche principale/mode derrick

Treuil VI Poulle en extrémité

Treuil de levage auxiliaire. Elle sert au montage au niveau de la tête S,

D'autres équipements additionnels sont disponibles sur demande. Les équipements de série et les options correspondent à la liste de prix actuelle.

Capacità max.	600 t a 11 m di raggio di lavoro Sistema SDB con S 48 m.
Momento di carico	8.085 tm - 385 t a 21 m di raggio di lavoro
max.	Sistema SDB con S 42 m.

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Sezione centrale

Sezione centrale cingolata a scartamento ridotto	Scartamento 5,8 m. Quick Connection. Stabilizzazione sezione centrale.
Stabilizzazione gru	Stabilizzatori idraulici con cilindri di stabilizzazione, Base stabilizzazione durante utilizzo gru: 14 m x 14 m. Livellamento automatico. Quick Connection tra corpo stabilizzatori torretta.
Plastre stabilizzatori	Plastre stabilizzatori (4,24 m \times 2,4 m \times 0,25 m) rimangono montate durante movimentazione in cantiere.
Passerella	Passerella con scala ad azionamento elettrico.
Comandi a distanza	Per movimentazione del cingoli e chiusura/

apertura degli stabilizzatori.

Telaio ralla di rotazione	Telaio ralla di rotazione Liebherr, costituito da ralla di rotazione con IV argano e caval- letto per montaggio del braccio asportabile. Collegato alla sezione centrale cingolata grazie a ralla di rotazione.
Dispositivi di sicurezza	Interruttore fine corsa: Valvola di sicurezza per evitare rottura del tubi: 3 avvolgimenti di sicurezza della fune sul tamburi argani. Ane- mometro: Indicatori elettronici di inclinazio- ne: Dispositivo segnalazione luci aeree.
Telecamera controllo	2 telecamere con monitor a colori, 3 teleca- mere per gli argani e per la parte posteriore.
Contrappeso 🦈	2 piastre da 5 t cadauno. Contrappeso totale 190 t. 18 piastre zavorra da 10 t cadauna (optional).

Sistemi braccio Braccio principale S Sistema 2825 con testa braccio per portata max. 600 t. Lunghezze braccio S 24 m -S 96 m. Lunghezze braccio SDB 36 m -SDB 144 m con sistema Derrick. Braccio principale Sistema 2825/2420 con testa braccio per SL portata max. 600 t. Lunghezze braccio SL 54 m - SL 102 m. Lunghezze braccio SLDB 54 m - SLDB 138 m con sistema Derrick. Falcone fisso F Sistema 1916 con testa braccio per portata max. 137 t regolabile a 10°, 15° e 30°. Lunghezze braccio F 12 m - 36 m. Sistema 2420 inclusi gli stralli. D 30 m -Sistema Derrick D D 36 m, per l'utilizzo del braccio Derrick è necessario l'argano III. Per max. 350 t di zavorra Derrick e raggi Telaio per contrappeso B variabili da 10 m a 18 m. Zavorra Derrick Piastre con contrappeso totale di 350 t. Argano II Argano III Regolazione braccio principale/utilizzo Derrick. Argano VI Argano ausiliario.

Ulteriore equipaggiamento su richiesta. Equipaggiamento di serie e optionals conforme al listino prezzi attuale.

Per montaggio testa braccio S, SL.

Runner 36 t

	600 t para 11 m de radio de trabajo. Sistema SDB – con 48 m de S.
Momento de	8.085 tm – 385 t para 21 m de radio de trabajo. Sistema SDB – con 42 m de S.

Chasis sobre cadenas

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Sistema de traslación de Liebherr, compuesto por una estructura central, dos vigas centrales, y porta orugas con tejas de 2 m y 4 motores de traslación.

Chasis central

	N. B. Carlotte and C. Carlotte
Chasis central estrecho	Para ancho de vía 5,8 m. Quick Connection. Chasis central – estabilizadores.
Estabilizadores	Largueros con cilindros de apoyo hidráulicamente desplazables. Base de apoyo en estado de trabajo: 14 m x 14 m. Nivelación automática. Quick Connection estabilizadores - superestructura.
Placas de apoyo	Placas de apoyo (4,24 m x 2,4 m x 0,25 m) permanecen montadas en traslación de grúa.
Pasarelas	Pasarelas con escaleras accionadas eléctricamente.
Control Remoto	Para traslación de las cadenas y para accionar los estabilizadores.

Superestructura

Contrapeso

Bastidor de superestructura	Bastidor de superestructura Liebherr, com- puesto por superestructura con cabrestante IV y caballete A desmontable, unida a la estructura central mediante una corona de giro de rodillos.
Dispositivos de seguridad	Interruptor de fin de carrera de elevación, válvulas de seguridad contra rotura de tuberías y latiguillos. Final de carrera de cabrestante, con 3 vueltas de seguridad, Anemómetro. Dispositivo de inclinación electrónico. Baliza aérea.
Supervisión por cámara	2 monitores a color, 3 cámaras para zona de cabrestante y parte trasera.

2 consolas con cada una de 5 t. Contrapeso total de 190 t. 18 placas de contrapeso a 10 t cada una (opción).

Sistemas de pluma

Pluma principal S	Sistema 2825 con cabezal para máx. capacidad de carga de 600 t. Longitud de pluma S 24 m – S 96 m. Longitud de la pluma SDB 36 m – SDB 144 m con sistema Derrick.
Pluma principal SL	Sistema 2825/2420 con cabezal para máx. capacidad de carga de 600 t, Longitud de pluma SL 54 m – SL 102 m, Longitud de la pluma SLDB 54 m – SLDB 138 m con sistema Derrick.
Plumín fijo F	Sistema 1916 con cabezal para capacidad de carga máx. de 137 t, montable bajo 10°, 15° y 30°. Longitud de la pluma F 12 m – F 36 m.
Sistema Derrick D	Sistema 2420 incluidos tirantes de sujeción. D 30 m – D 36 m, para el servicio del sistema Derrick se precisa el cabretante III.
Bandeja de contrapeso B	Para un contrapeso máx. Derrick de 350 t con radios variables radios escalonados de 10 m - 18 m.
Contrapeso Derrick	Placas con peso total de 350 t.
Cabrestante II	Cabrestante II.
Cabrestante III	Abatimiento de la pluma principal / servicio Derrick.
Cabrestante VI	Cabrestante auxiliar.

Otro equipamiento adicional bajo sugerencia. Equipamiento de serie y opciones correspondientes al listado de precios actual.

Para montaje en cabezal S, SL.

Макс.	600 т при вылете 11 м.
грузоподъемность	SDB – система с S 48 м.
Макс. грузовой	8.085 тм — 385 т при вылете 21 м.
момент	SDB-система с S 42 м.

Гусеничный механизм передвижения

жения

Механизм передви- Гусеничный механизм передвижения Либхерр, состоящий из гусеничной тележки и двух гусеничных движителей с траками 2 м и 4-мя приводами.

Гусеничная тележка

гусеничной тележки

Для ширины колеи 5,8 м. Система быстрого соединения Quick Connection. Центральная часть системы установки крана на опоры.

Система установки крана на опоры

Гидравлически отводимые и примыкаемые опорные балки с опорными цилиндрами. Опорная база для работы крана: 14 м х 14 м. Автоматическая установка уровня.

Система быстрого соединения Quick Connection для установки крана на опоры, поворотная платформа.

Опорные плиты

Опорные плиты (4,24 м х 2,4 м х 0,25 м) при передвижении остаются

установленными.

Мостки Дистанционное

Круговые мостки с подъемной лестницей с электрическим приведением в действие. Для управления движением гусениц и для

управление

приведения в действие опор.

Поворотная платформа крана

Рама поворотной платформы

Рама поворотной платформы Либхерр, состоящия из поворотной платформы с лебедкой IV и съемной А-стойки, соединена с гусеничной тележкой через роликовое опорно-поворотное устройство.

Приборы безопасности

Концевой выключатель подъема, предохранительные клапаны против разрывов труб и шлангов. Отключение по конечному положению канатного барабана с 3-мя предохранительными витками. Предупредительная ветровая сигнализация. Электронная индикация наклона. Сигнальные маяки для

Контроль через видеокамеру

2 цветных монитора, 3 камеры заднего вида и контроля лебедок.

Противовес

2 консоли по 5 т. Общий вес противовеса 190 т. 18 плит балласта по 10 т (опция).

Основная стрела S	Система 2825 с головной секцией для макс. грузоподъемности 600 т. Длина стрелы S 24 м – S 96 м. Длина стрелы SDB 36 м – SDB 144 м с деррик-системой.
Основная стрела SL	Система 2825/2420 с головной секцией для макс. грузоподъемности 600 т. Длина стрелы SL 54 м.— SL 102 м. Длина стрелы SLDB 54 м.— SLDB 138 м с деррик-системой.
Жесткомонтируемый решетчатый удлинитель F	Система 1916 с головной секцией для макс. грузоподъемности 137 т, устанавливаемая под углами 10°, 15° и 30°. Длина стрелы F 12 м – F 36 м.
Деррик-система D	Система 2420, включая штанги расчала. D 30 m – D 36 m, для работы в режиме деррика требуется лебедка III.

Для макс. балласта деррика 350 т и

Плиты общим весом 350 т.

2-я грузовая лебедка.

плавного изменения радиуса 10 m – 18 м.

Наклон главной стрелы / режим деррика.

Вспомогательный механизм подъема.

Стреловые системы

Основание

Лебедка II

Лебедка III

Лебедка VI

противовеса В

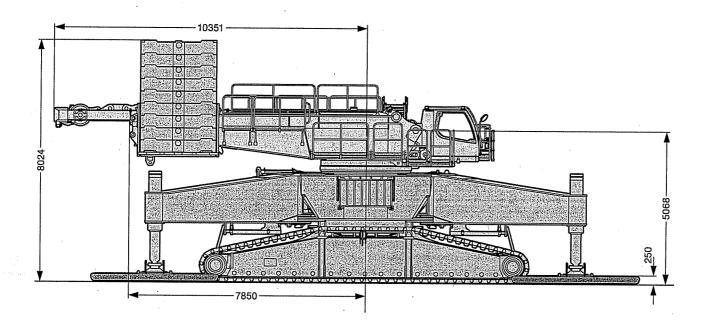
Деррик-балласт

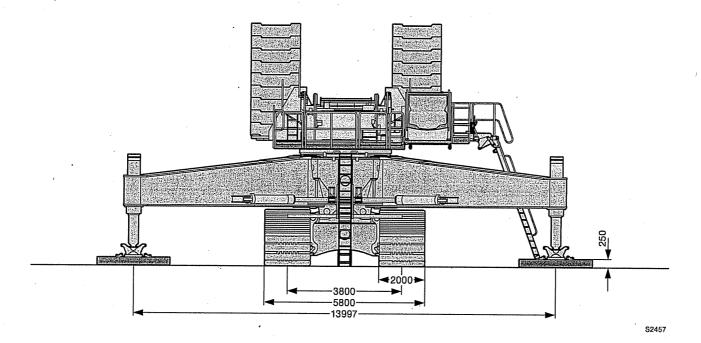
Дополнительная

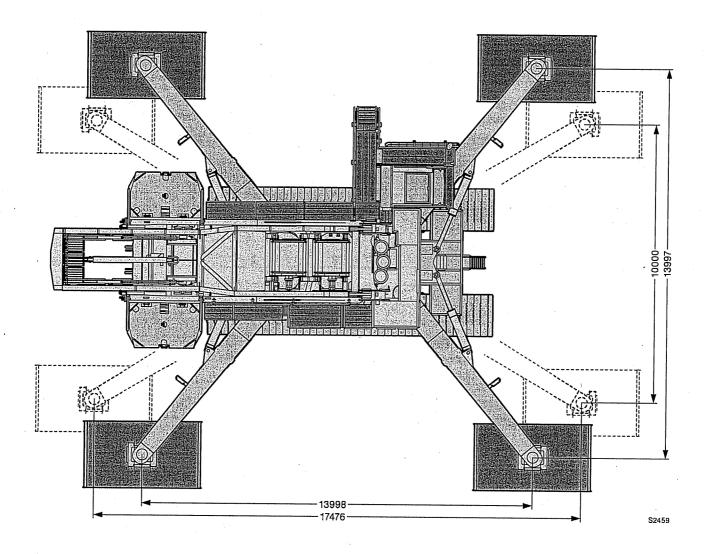
Другое дополнительное оборудование - по запросу. Серийное оснащение и опции – в соответствии с текущим прайс-листом.

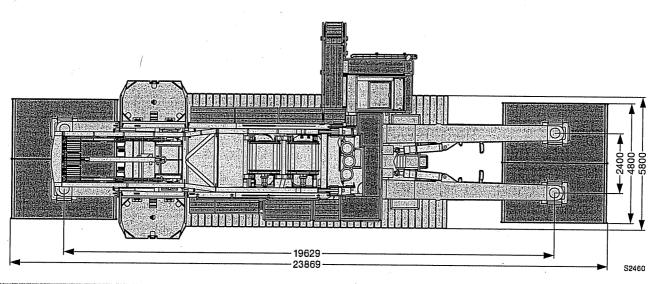
блочная головка 36 т. Для установки на оголовке S, SL

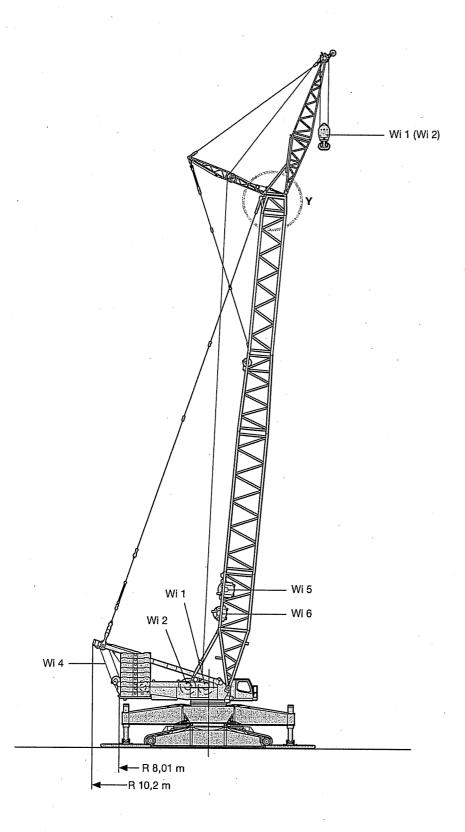
Maße Dimensions Encombrement • Dimensioni Dimensiones • Габариты крана

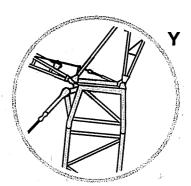








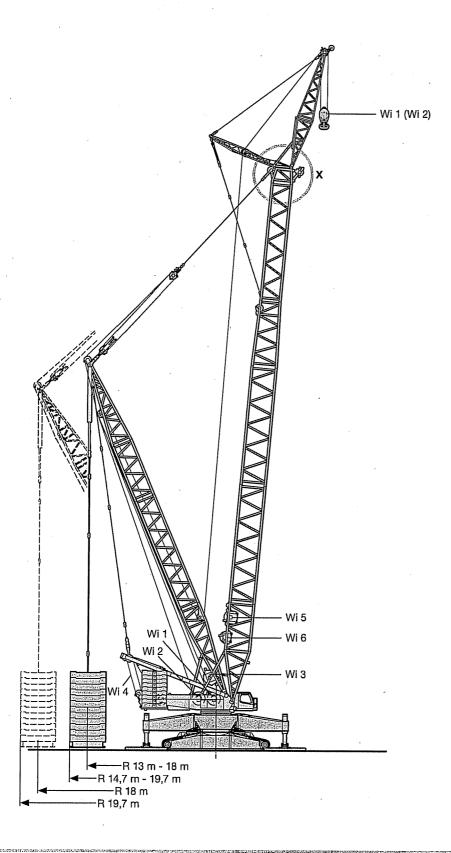


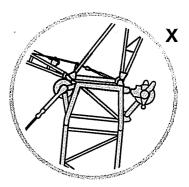


S2452

Maße Dimensions

Encombrement • Dimensioni Dimensiones • Габариты крана





S2453.01

Antriebe · Drive Mécanismes · Meccanism) Accionamiento · Приводы	Geschwindigkeiten · Working speeds Witesses · Velocità Velocidades · Скорости	Max. Sellzug - Max. single line pull Effort au brin maxi Mass. tiro diretto fune Tiro max. en cable - Макс. тяговое усиле	Sell Ø / Selllänge · Rope diameter / length Diamètre / Longueur du câble · Diametro / lunghezza fune Dlámetro / longitud cable · Диаметр / длина каната ;
	0 – 133 m/mln	180 kN	28 mm / 1050 m
2	0-/133 m/min	180 KN	28 mm / 1050 m
	0 – 130 m/min		and the state of t
	0 – 2 x 78 m/min		
	0 – 133 m/min	the state of the s	position and the state of the s
6	0 – 137 m/min	125 kN	25 mm / 800 m

Geschwindigkeiten • Working speeds Vitesses • Velocità • Velocidades • Скорости

Drehgeschwindigkeiten · Slewing speeds · Vitesses d'orientation Velocità di rotazione · Velocidades de giro · Скорости вращения	0 - 0,95 min ⁻¹
(кп/h) Drehgeschwindigkeiten : Slewing speeds : Vitesses d'orientation Velocità di rotazione : Velocidades de giro : Скорости вращения	0 - 1,36 km/h

Hakenflaschen • Hook blocks Moufles à crochet • Bozzello • Pastecas • Крюховые подвески

7				
Traglast : Load Forces de levage : Portata Capacidad de carga : Грузоподъемность	Seil ø : Rope dlameter Dlamètre du câble : Dlametro fune Dlametro cable : Диаметр каната	Rollen : No. of sheaves Poulles : Pulegge Poleas : Канатных блоков	Stränge · No. of lines Brins · Tratti portanti Reenvlos · Запасовка	Gewicht - Weight Polds - Peso Peso - Coccr. sec
600 / 300 t	28 mm	2 x 9	2 x 19	11 – 16 / 8.5 t
400 / 200 t	28 mm	2 x 5	2 x 11	6-11/5-7t
200 t	28 mm	5	11	2-7t
125 t	. 28 mm	3	7	1.5 = 5.5 t
50 t	28 mm	1	3	1-3t
16 t	28 mm		100000	111

Einscherplan · Reeving chart Tableau de mouflage · Piano per armatura funi · Esquema de reenvios · Схема запасовки

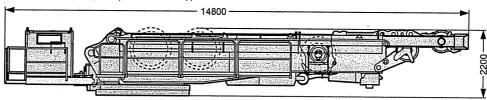
Stränge · No. of lines Brins · Tratti portanti Reenvios · Запасовка	1	2	3	4	. 5	6	7	8	9	10	1.1	12	13	14	15.	16	17	18	19
Max: Traglast : Max: capacity t Capacité maxi, : Max.portata t Cap: de carga max, t макс: Грузоподъемность, т	16	35	50	70	87	104	121	137	153	169	184	199	214	229	244	258	272	287	300
16 t 50 t 125 t 200 t 300 t															eta Goya				
Stränge · No. of lines Brins · Tratti portanti Reenvios · Заласовка	2 x 4	2 x 5	2 x	6 2	x 7 :	2 x 8	2 x 9	2 x 10	2 x	1 2 x	12 2	x 13	2 x 14	2 x 15	2 x 1	6 2 x	17 2	x 18	2 x 19
lax, Traglast : Max, capacity t apacité maxi Max portata t	141	175	209		42	274	306	338	369		99	429	459	488	517		15	574	600

600 t

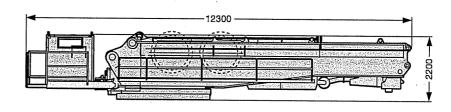
Transportplan Transportation plan Plan de transport · Plano di trasporto Esquema de transporte · Транспортная схема

Drehbühne mit SA-Bock, Winde 4, Quick Connection
Superstructure with SA-frame, winch 4, quick connection
Partie tournante avec chevalet SA, treuil 4, quick connection
Ralla di rotazione con cavalletto SA, argano 4., connessione rapida
Superestructura con caballete SA, cabrestante 4, conexiones rápidas
Поворотная платформа с SA-стойкой, лебедка 4, быстросменное соединение

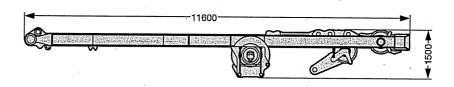
50 t



33 t

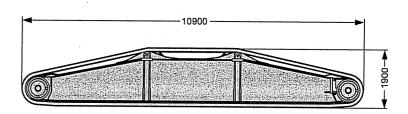


17 t



Raupenträger mit Bodenplatten 2 m Crawler with track pads 2 m Chenille avec pains de chenille de 2 m Traverse cingolate con piastre cingoli 2 m Porta orugas con tejas 2 m Гусеничный движитель с траками 2 м

2 x 38 t



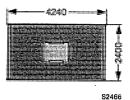
Winde 1/2 inkl. Seil Winch 1/2 incl. rope Treuil 1/2 incl. câble Argano 1/2, incl. fune Cabrestante 1/2 incl. el cable Лебедка 1/2, включая канат

2 x 7,5 t



Abstützplatte Support plate Patin de calage Piastra stabilizzatore Placa de ароуо Опорная плита

4 x 3,3 t

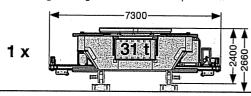


Transportplan Transportation plan Plan de transport · Plano di trasporto Esquema de transporte · Tpancnopthas cxema

Transportmöglichkeit 1 Possibility of transportation 1 Possibilité de transport 1 Possibilità di trasporto 1 Posibilidad de transporte 1 Транспортные возможности 1

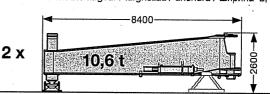
Mittelteil · centre section for outriggers Partie centrale du châssis avec fût central Corpo centrale · chasis central · Центральная часть

Breite / width / largeur / larghezza / anchura / ширина 3 m



Abstützholme · support beams poutres de calage · stabilizzatori largueros de ароуо · опорные балки

Breite / width / largeur / larghezza / anchura / ширина 2,45 m



Transportmöglichkeit 2 Possibility of transportation 2 Possibilité de transport 2 Possibilità di trasporto 2 Posibilidad de transporte 2 Транспортные возможности 2

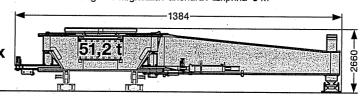
Abstützholme · support beams poutres de calage · stabilizzatori largueros de ароуо · опорные балки

Breite / width / largeur / larghezza / anchura / ширина 2,45 m

2 x 10.6 t

Mittelteil mit zwei Abstützholmen · centre section incl. outriggers
Partie centrale du châssis avec fût central avec deux poutres de calage
Corpo centrale con due stabilizzatori · chasis central con 2 largueros de ароуо
Центральная часть с двумя опорными балками

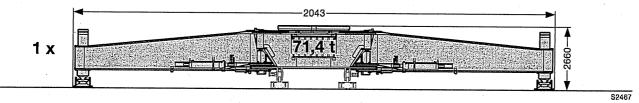
Breite / width / largeur / larghezza / anchura / ширина 3 m

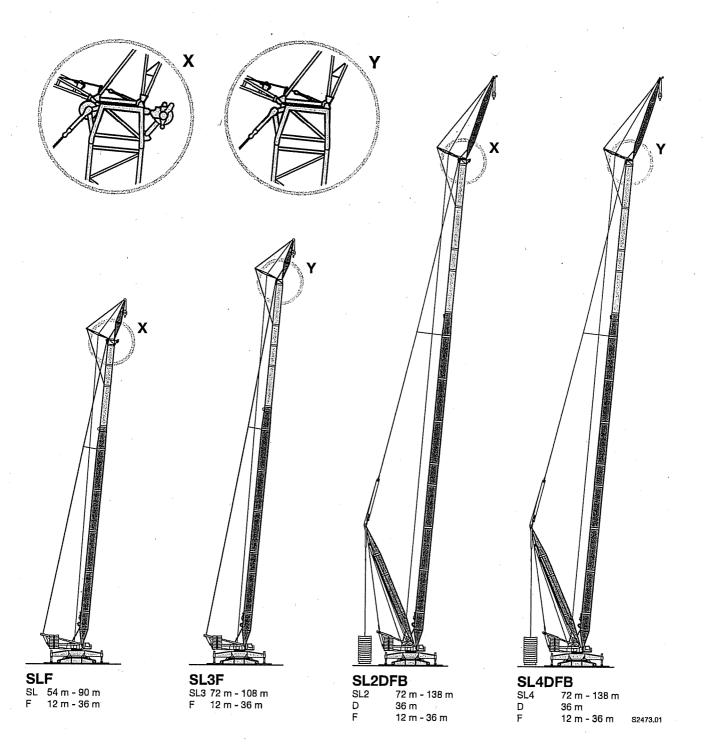


Transportmöglichkeit 3 Possibility of transportation 3 Possibilité de transport 3 Possibilité di trasporto 3 Posibilidad de transporte 3 Транспортные возможности 3

Breite / width / largeur / larghezza / anchura / ширина 3 m

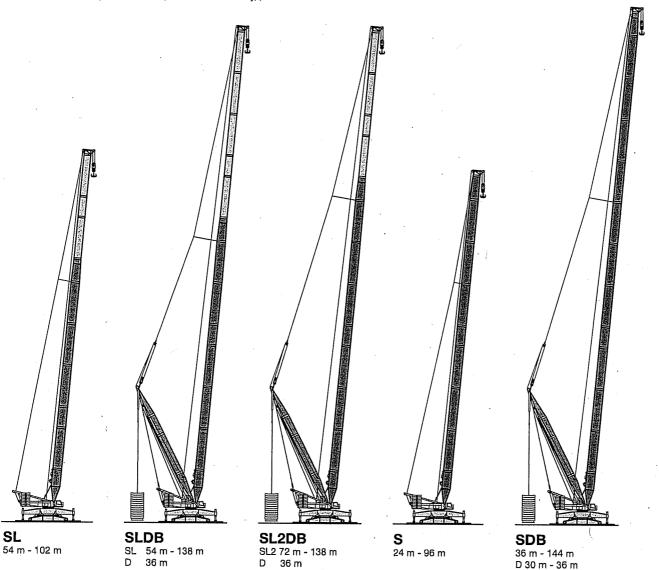
Mittelteil mit vier Abstützholmen · centre section incl. outriggers Partie centrale du châssis avec fût central avec quatre poutres de calage Corpo centrale con quattro stabilizzatori · chasis central con 4 largueros de ароуо Центральная часть с четырьмя опорными балками





Auslegersysteme Boom/jib combinations Configurations de flèche · Sistema braccio Sistemas de pluma · Стреловые системы

- S Hauptausleger, schwer
 Main boom, heavy
 Flèche principale, lourde
 Braccio principale, per carichi pesanti
 Pluma principal, pesada
 Основная стрела, тяжелая
- SL Hauptausleger, schwer/leicht Main boom, heavy/light Flèche principale, lourde/légère Braccio principale, per carichi pesanti/leggeri Pluma principal, pesada / ligera Основная стрела, тяжелая/легкая
- D Derrickausleger Derrick Flèche derrick Braccio Derrick Pluma Derrick Деррик-стрела
- F Feste Gitterspitze
 Lattice fly jib
 Fléchette treillis fixe
 Falcone tralicciato fisso
 Plumín fijo
 Неподвижный решетчатый
 удлинитель
- B Schwebeballast
 Suspended ballast
 Lest suspendu
 Zavorra sospesa
 Contrapeso flotante
 Подвесной противовес



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26	108	94	60	74	64	44,5	58	51	37	49,5	43	31,5	45,5	39	28,1	26
28	99	89	58.	70	62	42,5	54	48	35,5	46,5	41	30,5	42,5	37	26,7	28
30	92	84	56	66	.59	41,5	52	46	34	44.	39	29,2	39,5	35	25,5	30
32 .	85		54	62	56	40	49	44	33	41,5	37	28:	37,5	33	24,4	32
34	79	76	53	60	54	39	46,5	42	32	39,5	35,5	27	35,5	31	23,4	34
36	72	71	52	57	52	38	44	40	31	37,5	34	25,9	33,5	29,8	22,5	36
38	67	67.	50	55	50	37	42,5	38,5	30	35,5	. 32,5	25	32	28,5	21,6	. 38
40	63	L÷63, 🖖	49	52	48	36	40,5	37	29,2	34	30,5	24,2	30	27,1	20,7	40
44	54	54	47	48,5	44,5	34,5	37	34,5	27,8	31	28,4	22,7	27,3	24,5	18,3	44
48	47	47,5	45	45	42	33	34,5	32	26,5	28,5	26,2	21,4	24,9	22,7	16	48
52 :	41,5	.42	41	41,5	39,5	. 32	32,5	30	25,4	26,5	24,4	20,3	22,6	20,8	11,4	52
,56 📜 🖰	36,5	36,5		37,5	36,5	<u> </u>	30	28,1	24,4	24,6	22,9	19,3	20,5	17,3	6,5	56
60	32,5	32,5		- 33	33,5	30,5	28,5	26,8	23,6	22,9	21,5	18,5	18,4	12,8	3,4	60
64	arenne aren	hann tabelasar	tion of the grad	29,8	29,9	and the second	26,8	25,6	23,1	21,6	20,4	17,6	15,6	8,3		64
68				26,3			25,2	- 24,4 ·	22,6	20,4	19,4	15,5	9,9	5,4		68
72						mary and	23,6	23,3		19,3	18,3	13,4				72
76										18,6	16,5					76
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24	121	103⊞	63	81	70	46,5	63	54	38,5	54:	47	.33	49,5	42,5		24	
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30	90	87	58	69 :::	61	42	53	47	34,5	45,5	40	29,5	41,5	36	25.7	30	١.
32	. 83 . ⋅	82	56	66	58	41	51	45	33,5	43	38	28,4	38,5	34	24,7	32	
34	77	77	54	62	56	40	48,5	43,5	32,5	41	36,5	27,4	36,5	32,5	23,7	34	
36	71	71	53	60	54	38,5	46,5	41,5	31,5	39	35	26,4	35	30,5	22,8	36	
38	65	65	52	57:	52	37,5	44	40	31	37,5	33,5	25,4	33,5	29,4	22	38	
40	60	60	50	.55	:50	37	42,5	38	29,9	35,5	32	24,7	31,5	28,1	21,1	40	
44	52	53	47,5	51	46,5	35,5	39	36	28,4	32,5	29,5	23,2	28,4	25,6	19,1	44	
48	45	45,5	44	45,5	43	34	36	33,5	27,1	30	27,4	21,9	26,2	23,5	16,9	48	
52	39,5	.40	40 📜	40,5	39,5	32,5	.34	31,5	25,8	27,6	25,4	20,8	24	21,8	14	52	
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60	30	30,5	31	32	32	29,7	29,6	27,9	24,1	24,2	22,6	18,9	19,9	16,3	5	60	,
64	26,7	26,8	Introduction	27,8	28	27,6	27,3	26,2	23,4	22,6	21,2	18,2	18	12,1	3	64	
68	23,3			24,6	24,7		24,9	24,5	23	21,5	20,2	17,3	15,2	7,9		68	
72			11111111111	21,6	21,7	garaji. S	22,4	22,6	22,5	20,4	19,3	15,4	10	5,3		72	
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28	98	94	60	75	65	44	58	51	36	49,5	43	31	45	38,5	27,1	28
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56	33	33	33,5	39,5	39,5	33 31.5	32.5	32,5	26,5	29,1	26,6	21,2	25,2	22,7	15,6	52
60	28,6	28.8	29,3	29,7	29.9	30	29,6	30,5 28,9	25,4 24,7	27	24,7	20,3	23,2	21,1	12	56
64	24,5	24,7	25.3	26,2	26,4	27	26,8	27	23,9	25,4	23,5	19,3	21,2	19,2	7,8	60_
68	21,5	21,6		22,6	22,9	23.5	23,7	24	22,5	23,9 22,2	22,2 21	18,6 18	19,4	15,3	3,9	64
72	18,5	18,6	PSCHESS.	19.7	19.8	ri Tirent	20,6	20.9	20,4	20,1	19.3	17.1	17,6	11,4		68
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80	10.11	e-gen, we sit into the filled	***************************************	14.6		1000年中國主義	15,5	15,7		15.9	16	13,4	5,2	⊬ 5,2 3	1,2011/51/5/5/5/5	76
84		M. Carl					13,3	13.4		13,9	14.1	11,7	2,2	٠		80
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92		100		722						10.2	: :: : ::::::::::::::::::::::::::::::::					88 92

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12	137	ball Piers	10.00			and Octob	10.10		رو بال	COUNT		1, 30	10	1. 15°.	30°	/V↔
14	137	137								NEW YEAR			3.50			12
16	137	135	74	108	90	HEEGET.	TERMINA THE		ng ag mag	No uses		SECURIOR SECURI	ideams.	ne zovykan	1,5001 kt Tuck 1	14 16
18	137	128	71	102	85		79	66		68						
20	137	120	69	96	81	50	74	63		64	54	au an	58		Malayera L	18
22	131	114	67	91	77	48,5	70	60		60	51		54	46		20 22
24	117	108	65	86	73	47.5	67	57	39	57	48,5	nord de	52	43.5	waren.	24
26	103	102	63	82	70	46	63	54	37,5	54	46	32	49	41,5		26
28	. 95	96	61	78	67	44,5	60	52	36,5	51	43,5	31	46	39,5	27,2	28
30	87	88	60	74	64	43,5	57	49.5	35,5	48.5	42	30	44	37	26,1	30
32	80 	81	58	71	62	42,5	54	47,5	34,5	46	40	29	41,5	35.5	25.1	32
34	.72	73	57	_68	60	41	52	45.5	33,5	43.5	38.5	28	39.5	34	24.2	34
36	66	66	56	64	58	40	50	44	32,5	42	36,5	27,2	37	32,5	23,3	36
38	61	62	54	61	56	39,5	48	42,5	31,5	40	35.5	26,3	35,5	31	22,5	38
40	57	:57	52	58	53	38,5	46	41	31	38,5	34	25,5	34	29.7	21,8	40
44	48	49	47,5	50	48	36,5	42,5	38	29,5	35	31,5	24,1	31	27,5	20,3	44
48	41,5	42	42,5	43	43	35,5	39,5	36	28,1	32,5	29,3	22,8	28,2	25,3	18,4	48
52	36	36,5	37,5	37,5	37,5	34	37	34	27,1	30,5	27,6	21,6	26,3	23,4	16,4	52
56	30,5	31	32	32,5	33	.31,5	33,5	31,5	26	28,2	25,8	20,7	24,3	21,9	14,1	56
60	26,8	. 27	27,6	28,1	28,6	28,3	29,4	28,4	24,8	26	24,1	19,8	22,4	20,5	10,3	60
64	23,2	23,4	23,9	24,3	24,5	25,1	25,3	25,2	23,4	23,8	22,6	19	20,7	18,2	6,4	64
68	19,5	19,8	20,3	21,1	21,4	22	21,8	22	22,1	21,6	21,1	18,4	19	14,7	3,5	68
72 70	16,8	16,9		18:	18,3	18,9	19	19,3	20	19,3	19,6	17,7	17,2	11,19		72
76 (14,2	14,3		15,2	15,4	:: 15,8 _{.\(\)}	16,3	16,6	17,3	16,9	17,2	16,9	14,6	7,6		76
80 84	11,7			12,9	13,1		13,6	13,9	14,6	14,5	14,8	14,9	10,1	5,4		80
64 88	MINISTER PRO		ON SOME	10,7	10,8	272222	11,7	11,9	pasatoria.	12,1	12,4	12,9	5,6	3,3	and the second	. 84
92							9,8	9,9		10,4	10,5	11				: 88
96	Facilities.			archida 1	ALLEN CONTRACTOR	istation.		into mata	in a land on	8,8 7.3	97.4	ustaliani.			alibatana.	92 96

								SL 78								B
<i>\$</i> 7	2008-01-2	F 12	CE NOT SELECT	7000	F 18			F 24		25775	F 30		V. 4.	F 36		ΑY
	10°	15°	30°	∄10°	15%	∷30°	1. 10°	‼⊪15°≝	∜ 30°	10%	15°	30°	10°	159	30°	₽
14	137	125								V 15				arter parce drawn		14
16	134	120	73	98												16
18	129	116	271	94	. 84	that are	76								WEST STATE	18
20	124	112	69	90	.80	550	73	62		63			57			20
22	118	108	67	87	77	48,5	69	59		59	50		54	45	District Control of St.	22
24	109	103	65	84	74	47	66	57	38,5	56	48		51	43		24
26	101	97	63	81.	.71	46	63.	.54	37,5	54	46.	32	48,5	41		26
28 🐠	93 💯	92	62	78	68	44,5	60	52	36,5	51	44	31	46	39	26,9	28
30	86	-86	60	75	65	43,5	58	50	35,5	48,5	42	29,9	43,5	37,5	26	30
32	79	79	59	72	63	42,5	55	48	34,5	46,5	40,5	29	41,5	35,5	25,1	32
34	72	73	57	68	61	41,5	53	46,5	33,5	44,5	38,5	28,1	39,5	34	24.2	34
36	66	67	56	64	59	40,5	51	44,5	32,5	42,5	37	27,2	38	33	23,3	36
38	59	60	55	60	56	39,5	49	43	32	41	35,5	26,4	36	31,5	22,5	38
40	56	56	54	56	54	39	47	42	31	39,5	34,5	25,7	34,5	30	21,8	40
44	48	48,5	48	49	49,5	37	43,5	39	29,7	36	32	24,2	32	27,9	20,5	44
48	40,5	41	42	43	43,5	35,5	39,5	36,5	28,4	33	30	23,1	29,2	25,9	18,8	48
52	35,5	35,5	36,5	36,5	37	34	36	34	27,3	31	28,1	21,9	26,8	23,8	16,8	52
56	30,5	31	31,5	31,5	32	33	32	31,5	26,4	29,3	26,5	20,9	25,1	22,4	14,8	56
60	25,7	26,1	27,1	27,6	28	. 29	28,3	28,7	25,5	27,4	24,9	20,1	23,3	21,1	11,9	60
64	22,4	22,6	23,1	23,5	23,9	//25 (E)	24,7	25,1	23,6	24,5	23	19,3	21,6	19,7	8,4	64
68	19,2	19,4	19,9	20,2	20,4	21	21,1	21,6	21,3	21,5	20,7	18,3	19,6	17,2	4,9	68
72	16	16,2	16,7	17,4	17,6	18,2	17,9	18,2	18,9	18,5	18,4	17,2	17,6	13,8	Jerra striwated	72
76 80	13,5	13,6		14,6	14,8	15,4	15,4	15,7	16,5	15,8	16,1	16,1	15,6	10,4		76
84	11,2	11,3		12,1	12,2	12,6	12,9	13,2	14	13,7	14.	14,8	13	7.		80
88	9	9,1		10,3	10,4		10,4	10,7	11,4	11,6	11,9	12,7	9,2	5,1		84
92	FEED NAME OF THE	DATA PROJECTION	West of the	8,4	8,5	unionemuseus.	8,9	9	9,4	9,4	9,8	10,5	5,4	3,2	DOMESTING TO ST	. 88
96							± 7,5	7,6		7,9	8	8,4				92
96		F217-515.5					<u></u> 6	Karana.		6,7	6,8	7,1	Marana			96
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104	4341.7544		1944 (404)	24/24/2000	Service Service		Alpen Silver			4,4	Mary Well Are	440日前時間	ALCOHOLDEN	第861 787	第6名为经验的	104

Ø m.		F 12	100,100	or e	F18			SL 84		k Later	F30		is a second			
_ m	10%	15°	₩ 30°	10°	15%	30°	10°	15°	1. 30°	10°	15°	30°	10°	F 36	0.00	
14	137	126	150 ZOO. 152	. Control	1.419.67	5) (1. 		itical Only	U.S. OUGA	I.U.	10.	,,, 3 U	1.10	, 15°.	.30°	∴∕∨↔
16	136	122		98												14
18	131	118	72	95	84	nacional	77		Mark Park	TANK THE		jouena.	HASIMEN			16 18
20.	127	114	69	92	81		74	63		64			58	1047		20
22	123	111	68	89	78	48,5	71	60	de andassinad	60	51	alember andre	55	45,5	illa (Aldinasia)	22
24	113	106	66	86	75	47,5	68	58	38,5	57	48,5		52	43,5		24
26	103	99	64	83	72	⊮.46 °	65	55	37,5	55	46,5		49	□41.5 ≟	FINCE CITY	26
28	92	91	63	80	70	45	62	53	36,5	52	44.5	31	47	39.5		28
30	83	83	61	77	67	44	59	51	35,5	49,5	43	30	44.5	38	26,1	30
32	77	77	60	74	65	43	57	49	34.5	47.5	41	29,2	42.5	36.5	25.2	32
34	71	71	58	70	62	42	54	47,5	33,5	45.5	39.5	28,3	40,5	35	24,4	34
36	65	66	56	65	∵59 ⊖	41	52	45,5	33	44	38	27,5	39	33.5	23,6	36
38	59	60	54	61	56	40	50	44	32	42	36,5	26,7	37	32	22,7	38
40	53	54	52	56	53	39,5	48,5	43	31,5	40,5	35	26	35,5	31	22	40
44	46	46,5	47,5	46,5	47	37,5	45	40 ⊞	30 🚟	37,5	33	24,5	33	28,6	20,8	44
48	39,5	40	41,5	41	41,5	36	41,5	37,5	28,9	34,5	31.	23,4	30,5	26,7	19.5	48
52	33	33	35	35	36	33	36	34	27,7	32	28,9	22,3	27,8	24,8	17,6	52
56	28,7	29	29,8	29,5	30	30	31	30,5	26,5	28,9	26,9	21,2	25,8	23	15,7	56
60	24,4	24,7	25,6	25,7	26,1	26,9	26,1	26,6	25,3	25,9	25	20,4	23,9	21,8	13,8	60
64	20,1	20,5	21,5	22	22,4	23,4	22,8	23,2	24	23	23	19,7	22,1	20,5	10,5	64
68	17,1	17,3	17,9	18,2	18,7	19,8	19,5	20	21,1	20	20,5	18,9	19,9	19,2	7,2	68
72	14,2	14,4	15	15,4	15,6	16,2	16,2	16,7	18	17	17,6	17,1	17,2	16,4	4	72
76	11,3	11,5	12,1	12,9	13,2	13,8	13,5	13,8	14,8	14,1	14,7	15	14,5	.13,2		76
80 84	9,1	9,2	9,5	10,5	10,7	11,3	11,5	11,7	12,4	11,6	11,9	12,8	11,8	1024		80
88	7,6 6	7,6 6,1		8,2	. 8,3	8,9	9,4	9,7	10,3	9,9	10,1	10,8	9,2	6,9		84
92	4.6	0,1	ou whater	6,8	6,9	les de la companio	7,4	7,6	8,3	. 8,1	8,4	9,1 7,5	6,6	5,1	engest eine dang	88
96	4,0			.5,4 4	5,5		6	6,1	6,4	6,3	6,7	7,5	4,1	3,4		92
100				4			4,7	4,8		4,9	5,1	5,8		DESCRIPTION OF THE		96
100	The state of a fine of	alek alitir Albekt Oleh kurpatektela	graffysa 24 Mae'r dafn	1980 Beer 1894	North Control	1945 S. 54(6)	3,5	3,6	inga sipag	3,9	4	4,5	. 19 M. 4475		4.45	100

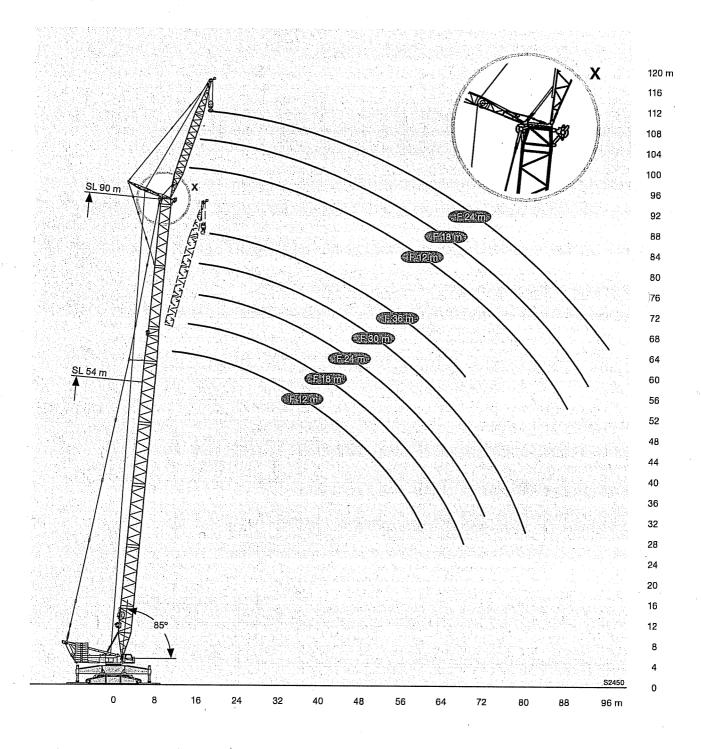
21

Å m			400	217	SL 90					
X IIII	1312121	F 12		dinas says.	F18		100000000000000000000000000000000000000	F-24*	5000 C	1 <i>8</i> 7 1
⊽⊷ m	10°	dj″∛i⊈ 15°.	6 4 30° 1	10°	15%	30°	10%	∮∜′; 15°	30°] <i>A</i> , ←
14	133									14
16	130	119	entrale de la la constanta de la constanta de La constanta de la constanta d	97	allers in control on polys to partie.	Sirk a Horac III and Program was	A Control of the Control of the Control		Sales Called	16
18 .	126	116	72	94	. 84		76	A Salar San	the transfer	18
20	121	114	70 (64)	910	82		74	63		20
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26	110	108	67	87	76	47,5	69	58	39	24
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28 30	91	92	63 / , -	Vi., 81	ina 71 1604	45,5) - 63 i - i	54	37	28
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32 34	74	74	61	72	66	43,5	58	50	35	32
	68	69	59	68	64	42,5	56	48,5	34	34
36 38	63	∯51. 64. Juli	57	64	<u> </u>	41,5	54	47	33,5	36
40	58	58	54	59	58	40,5	51	45	32,5	38
	52	53	51	55	54	40	49	43,5	32	40
44	44	44,5	45 y j	46	46,5	38,5	44	:41	30,5	44
48	38	38,5	39,5	39	39,5	37	39:	38	29,4	48
52	32	32,5	33,5	33,5	34	34	34,5	35	28,2	52
56 60	26,7	27	28,1	28,4	29,1	29,8	29,7	30,5	26,7	56
64	22,8;	23,1	23,9	23,7	24	25,5	25	25,8	24,3	ij
	19	19,3	20,2	20,3	20,6	21,6	20,8	21,3	21,8	64:
68	15,1	15,5	16,5	16,9	17,2	18,3	17,7	18,2	19,3	68
72 76	12,7	12,9	13,4	13,5	13,8	14,9	14,6	15,1	16,4	72
76	10,3	10,6	117	11,2	11,2	11,7	11,5	12,1	13,5	" ¹¹ 76`
80	7,9	8,3 🚈	8,7	9,2	9,3	9,8	9,3 //	9,4	10,6	∞ 80 ·
84	5,9	6,1	6,4	7,3	7,4	7,9	7,7	7,9	8,6	84
88	4,4	4,6	e star net zervie kur.	5,3	5,5	6	6,2	6,3	7	88
92		, , 3		4	4,1		4,6	4,8	5,3	92
96	166 C. S. V. 2017 P. S.	14年日本民共和国	State Assets France		25世界的 1		3,3	3,4	3,7	96

90 — 3,3 — 3,4 — 3,7 — 96

Das Aufrichter/Ablegen dieser Auslegerlänge muss über die Stützbasis 17,6 m erfolgen · The erection/dismantling of these boom lengths has to be effected with the support base 17,5 m — TAB 181179

Le relevage/dépose de cette longueur de flèche doit être effectué sur la base de calage 17,5 m · Il sollevamento/abbassamento di questa lunghezza braccio è possibile con base di stabilizzazione da 17,5 m
El levantamiento y descenso de esta longitud de pluma debe hacerse por encima de la base de apoyo de 17,5 m · Установка/укладка при этой длине стрелы должна происходить с опорной базой 17,5 м



//	ALLERS OF STREET	ME HOL		GHELLIAN Territor			Signal A	SL3 72			143 7110	king plan		a kasasa	nervasio	À
7 _	400	S.F. Z.		100	F.18		40000000	F 24	建设建设	51071007	F 30	0000 (2 m s	167,5816	₩F 36	24 P. V.	J ₽7 I
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16	137	135	74	108	90	alcure de la compa	PHIS SPEC	ale de la como	ilarosneras	AND AND AND AND		die serie dans	trathunitus	arana	2107700754A945757	14
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22	134	114	67	91	77	48.5	70	60	B. Down	60	51	100,000	54	46		20
24	120	109	65	- 86	73	47,5	67	57	∜39⊸	57	48,5	ile per entre	52	43,5	lingueros de la	22 24
26	107	104	63	82	70	46	63	54	37.5	54	46	32	49	41,5		24
28	99	98	61	78	67	44.5	60	52	36,5	51	43,5	31	46	39,5	27.2	28
30	91	91	60	74	64	43,5	57	49,5	35,5	48.5	41,5	30	43,5	37	26.2	30
32::::::	83	84	58	71	62	42	54	47,5	34,5	46	40	29	41,5	35,5	25,2	32
34 🖂	75	76	57	68	60	41	.52	45,5	33,5	43,5	38,5	28	39,5	34	24,2	34
36	69	69	56	65	58	40	50	44	32,5	42	36,5	27,2	37	32,5	23,3	36
38	64	65	54	62	56	39	48	42,5	31,5	40	35,5	26,3	35,5	31	22,5	38
40.	60	60	52	59	53	38,5	,46 ·	41	31	38,5	∍34 🦙	25,5	34	29,7	21,8	40
44 48	.51 45	. 52 <u>.</u> .	49:::	53	49	36,5	42,5	38	29,5	.35	31,5	24,1	31,	27,5	20,3	. 44
52	39,5	45 39.5	45,5 40.5	46 40	45 40.5	35,5	39,5	36	28,1	32,5	29,3	22,8	28,2	25,3	18,4	48
56	34	34,5	35,5	35,5	40,5 36	34 32	37 34	34	27	30,5	27,5	21,6	26,3	23,4	16,4	52
60	30	30,5	30,5	31	31,5	30	31	31,5 29,4	26	28,2	25,8	20,7	24,3	21,9	14,1	56
64	26,5	26,7	27,1	27,3	27,5	27,9	27,6	27,2	25,1 24,4	∜26,5 25	24,2 23	19,8 19	22,4	20,5	10,2	60
68	22,9	23,1	23.6	24,2	24.4	24,9	24,6	24,8	23,7	23.5	21,9	18.3	20,7 18,9	18,2 14,6	6,4 3,5	64 68
72	20,2	20,3		21,1	21,3	21,9	21,9	22,2	22,1	21.8	20,7	17.7	17,2	14,0		72
76	17,6	17,7		18,4	18,5	18.9	19,2	19.5	19.7	19,5	18.8	16.9	14,6	7.4		76
80	15,2			16,2	16,3		16,6	16,8	17,3	17,2	16,9	15	10,1	5,3		80
84	riksate (sakk imi	History Transfer		13,9	14		14,6	14,8		14,9	15	13,2	5.5	3,2		84
88							12,7	12,8		13	13,2	11,5			Mark Sales	88
92. 96							MITTERN.			11,3 9.6	11,4					92

						2001 - 124 2001 - 124		SL3 75	i (1.2)							A
∮	120011	F 12		2.915	F18		N. STORY	F 24		(48.444)	F 30	分的等码的	多种种类	F 36	护性病的	B
⇔. m.	10%	15°	30°	10°	ii. 15%	∦ 30°	10%	15°	30°	10°	.: 15°	30°	:10°	15%	ું: 30°∷	R
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22	132	115	67	92	78	49	75 71	63		64	54		59			20
24	120	109	65	87	74	49 47.5	67	60 57	39	60 57	51	imseriisevoo	55	46,5	ECONTRACT	22
26	107	102	64	83	71	46	64	55	38	54	48,5 46,5	32	52 49.5	44		24
28	97	96	62	79	68	45	61	52	36.5	51	44	31	46.5	41,5 39,5	070	26 28
30	90	89	60	75	65	43.5	58	50	35.5	49	42	30	44	37,5	27,2 26,2	30
32	82	183	59	72	63	42.5	55	48	34,5	46,5	40.5	29,1	42	36	25,3	30
34	75	76	57	69	61	41.5	53	46	33,5	44,5	39	28,2	40	34.5	24,3	34
36	68	69	56	65	59	40,5	51	44.5	32,5	42.5	37	27,3	37,5	33	23,4	36
38	63	63	55	62	57	39,5	49	43	32	40,5	35,5	26.5	36	31,5	22,6	38
40::-:	59	59	53	-59 ∴	:54	38,5	47	41,5	31	39	34,5	25.7	34.5	30	21.9	40
: 44	1:51	. 51	48,5	52	49,5	37	43	38,5	29,8	36	32	24.2	31,5	27,9	20.5	44
48	43,5	43,5	44	45	44,5	35,5	40,5	36,5	28,4	33	29,7	23	28,9	25,7	18,7	48
52	38,5	38,5	39	39	39	34,5	37,5	34,5	27,3	31	28	21,8	26,7	23,7	16,8	52
56	33	33,5	34,5	34,5	357	32,5	35	32,5	26,3	28,9	26,3	20,9	24,9	22,3	14,9	56
60 iii	28,8	28,9	29,6	30	30,5	29,7	31	29,6	25,2	26,8	24,6	20	23	20,9	11,3	60
68	25,4 22	25,6 22,2	26 22.7	26 23.1	26,3	26,7	27,3	26,7	24	24,7	23,2	19,1	21,2	19,4	7,6	64
72	18,9	19	19.3	20,1	23,3 20,4	23,8 20.9	23,5 20,8	23,7 21	22,9	22,7	21,9	18,5	19,5	16	3,9	68
76	16,5	16.6	19,5	17.2	17.4	20,9 18	18,2	18,4	21,6 19,1	20,7 18,5	20,5	17,9	17,9	12,6		72
80	14,1	14.2	les in End hydra	15	15,1	un O man	15,6	15,9	16.5	16,2	18,8 16,5	17,3 15,9	16,2 12,2	9,1	4141.91161	76
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92							9.8	9,9		10,4	10,5	10,9				92
96	istik brostyerst	A CANAGA	nuuvallaan L	267.5115.9511		184-468441	9,0	9,9	is worked	8,9	9				Notice of the second	92 96
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	///SL	.3 / /	F F	ng Padena La	<u> [6</u>	-13			1,72							
	Strawer USF Strawer	F 12	i in a property and a contract of the contract	l eranz	- F 18		1.42300	SL3 78 F 24		tera il signi Tarratione	F 30		Lesson	F 36		A
_ m	10°	15°	30°	10°	15°	30°	10%	15%	30°	10°	15°	30°	10°	15°	30°	<i>\$</i>
14	137	126		1			1200			Part O.E.	362 1925	III.SU		100 JO		V
16	135	121	73	98							909/5		CASONE.			14
18	130	117	71	94	84		77:	ikaren.	37 F. H.	72.55		Medical	100115700		THE STA	16 18
20	125	113	69	91:	81	50	73	62		63	151/1/191	alle saleleta Libertorialis	57	162 - 9 6 -		20
22	119	109	67	88	77	48,5	69	59		59	50	Manda Maria	54	45	A COMPANIES OF STREET	22
24	111	104	65	84	74	47	66	57	38,5	56	48	研究中国生	51	43		24
26	104	99	63.∷	81	71	46	63	54	37,5	54	46	32	48.5	41	meric	26
28	∴96 🚐	95	62	78	68	44,5	60	52	36,5	51//-	44	31.	46	39	26.9	28
30	89	89	60	75	65	43,5	58	50	35,5	48,5	42	29,9	43,5	37,5	26	30
32	82	83	59	72	63	42,5	55	48	34,5	46,5	40,5	29	41,5	35,5	25,1	32
34	76	76:	57	68	61	41,5	53	46,5	33,5	44,5	38,5	28,1	39,5	34	24,2	34
36	69	70	<u>56</u> ⊹∴;	65	59	40,5	51	44,5	32,5	42,5	⊞37 _∷	27,2	38	33	23,3	36
38	63	64	55	62	57	39,5	49	43	32	41	35,5	26,4	36	31,5	22,5	38
40 44	59 51	59	54	58	55	39	47_	42	31	39,5	34,5	25,7	34,5	30	21,8	40
48	43.5	52	49	52	51	37	43,5	∥ 39	29,7	36	32	24,2	32	27,9	20,5	44
52	38.5	. 44 39	44 20 F	45,5	45	35,5	40	36,5	28,4	33	30	23,1	29,2	25,9	18,8	48
56	34	34	39,5 35	39 34.5	39,5 35	34,5	37,5	34,5	27,3	31	28,1	21,9	26,8	23,8	16,8	52
60	29	29.4	30,5	30,5	35 31	33,5 30,5	34,5	33	26,4	29,3	26,5	20,9	25,1	22,4	14,8	56
64	25,7	25,9	26,3	26,6	27	27,2	27,5	30,5 27,3	25,5	27,3	24,9	20,1	23,3	21	11,9	60
68	22,6	22,8	23,2	23,3	23,5	24	24	24,1	24,2 22,8	25,2 23	23,4	19,3	21,5	19,7	8,4	64
72	19,4	19,6	20.1	20,6	20.8	21,3	20,9	21,1	21,3	20,8	21,9 20,3	18,6 18	19,6	17,2	4,9	68
76	16.9	17	NEDWY.	17.8	18	18.5	18.5	18,7	19,3	18,6	18,8	17,5	17,7 15.7	13,8	angerranies	72
80	14.7	14.8		15.3	15.4	15.8	16.1	16,3	16,9	16.4	16,7	16,6	13.1	10,4 7		
84	12,5	12.5		13,3	13,4		13,7	13,9	14,6	14,3	14,6	14.7	9,3	5,1		84
88				11.3	11,4		12	12,1	12.4	12,1	12,4	12,9	5.4	3,2		88
92				NEW TOTAL			10,3	10,4		10.5	10,7	(i i i i i i i i i i i i i i i i i i i	12012076			92
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14	137	126		13.200			12.50	Walley Co.		0.044		aries Table	9100			14
16	137	122	erice en mercus	99				di ka								16
18	132	118	71	95	85		77			l Minis						18
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22	122	111	67	89	78	48,5	70	60	ik ta dana	60	51		54	45,5		22
24	113	106	65	85	. 75	47,5	67	57	38,5	57	48,5		51	43		24
26	103	99	64	82	71	46	63	55	37,5	54	46,5	32	49	41		26
28	94	93:	62	79	69	45	61	52	36,5	51	44,5	315	46,5	39,5		28
30	87	87	61	76	66	43,5	58	51	35,5	49	42,5	29,9	44	37,5	26	30 32
32 34	81 75	81	59	73	64	42,5	56	48,5	34,5	47	40,5	29,1	42	36	25,1	32
36	68	75	58	69	1 61 E	41,5	53	47 :	33,5	45	39	28,2	40	34,5	24,3	34
38	62	69	57	65	± 59	40,5	51	45	33	43	37,5	27,3	38,5	33	23,5	36
40	57	63 58	55 54	61 58	57	40	49,5	43,5	32	41,5	36	26,6	36,5	32	22,6	38
44	50 50	56 51	50	51	55	39	48	42,5	31	40	35	25,8	35	30,5	21,9	40
48	43	43.5	44	44,5	51	37,5	44,5	39,5	29,9	37	32,5	24,4	32,5	28,3	20,6	44
52	37	37.5	38		45	36	40,5	37	28,7	34	30,5	23,2	29,8	26,3	19,2	48
56	32,5	33	33.5	38,5 33,5	39 33,5	34,5 33,5	37	34,5	27,5	32	28,5	22,1	27,3	24,3	17,2	52
60	28.3	28.6	29.4	29,5	29,8	30,5	33,5	32,5	26,6	29,9	26,9	21	25,5	22,7	15,3	56
64	24,4	24,6	25,1	25.7	29,6	27	29,8 26,4	30 26.8	25,7	28:::	25,4	20,3	23,8	21,4	12,9	₩ 60
68	21,4	21,6	22	22	22,2	23,3	23,1	23,5	24,5	25,7	23,8	19,5	22,1	20,1	9,5	64
72	18,5	18.6	19.1	19.4	19,6	20,1	19,7	20,2	22,4	22,9	21,8	18,7	20,4	18,4	6,1	68
76	15,6	15.7	16.1	16.8	17	17,5	17,3	17,5	20,3 18,2	20,2	19,7	17,8	18,6	15,1	3,3	72
80	13.5	13,6		14.2	14,4	14.9	15	15.2	15,9	17,4 15,2	17,6 15,5	16,9	16,8	11,8	he was	76
84	11,4	11.4		12.1	12,2		12,7	13	13.6	13,2	13,5	16. 14,3	_15 11.5	8,5∴	randows:	80
88	9,5	ies sa		10.4	10,4		10,7	10.8	11.3	11,1	11,5	12,3	7.6	6,1		84
92		PERSON		8.6	8.7	wastka	9,3	9,4		9,1	. 11,5 . 9,5 h	10,3	/,0	4,2	n rein er si	88
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14	137	127											APPEN			a 14
16	137	123	ili zo s in	99	annapoko	er Minister er en		dress of the second	Mioroce a srene	restrict to com	terrior con a	manufacture of the state of the	And the best of the			16
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20	124	115 112	69.// 68	92	82		74	63		63/1		Aconstrui	58		rhick in	20
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26	105	100	64	83	75 72	47,5 46	68	58	38,5	57	48,5	tideorea acotoere	52	43,5	ter and the second	24 26
28	95	93	63	80	69	45	64. 62	1.55 53	37,5	55	46,5		49	41,5	reduce	26
30	86	86	61	77	67	44	59	⊪.53∋⊁. 51	36,5	052 €	44,5	31	47.	∛39,5	pisioskin	28.
32	80	80	60	74	65	43	57	49	35,5 34,5	49,5	43 41	30	44,5	38	26,1	30
34	74	_74	58	70	62	42 42	54	47.5	33.5	47,5 45.5	39.5	29,2	42,5	36,5	25,2	32
36	68	69	57	66	160	41	52	45.5	33.	44	38,5	28,3	40,5	35	24,4	34
38	62	63	55	62	57	40	50	44	32	42	36.5	27,5 26,7	39 37	33,5 32	23,6	36
40	56	57	54	58	55	39.5	48.5	43	31.5	40,5	35	26	35.5	32 31	22,7 22	38
44	49,5	49.5	50	50	49.5	37.5	45	40	30	37,5	33	24.5	33,5	28.6	20,8	40 44
48	42,5	43	44	44	44.5	36	41.5	37.5	28,9	34,5	31	23.4	30,5	26,7	19,5	48
52	36,5	36.5	38	38	38,5	34	37,5	35	27,7	32	28,8	22,3	27,8	24.8	17,6	52
56	32	32,5	33	32,5	33	32	33	32	26,8	30	27,3	21,2	26	23	15.7	56
60. 🖖	27,8	28,1	28,9	28.8	29.1	29,8	29	29,1	26	27.9	25.9	20.4	24.3	21,7	13.8	√60
64	23,6	_23,9	24,8	25,1	25,5	26,3	25,7	26,1	25,1	25,7	24,4	19,6	22,7	20,5	10,5	64
68	20,7	20,9	21,3	21,5	21,9	22,8	22,5	22,9	22,7	22,8	22,2	18,9	20,9	19,2	7,2	68
72	17,9	18,1	18,5	18,6	18,8	19,3	19,2	19,7		19,9	19,7	17,7	18.7	16,4	3,9	72
76	15,1	15,3	15,7	16,1	16,3	16,9	16,5	16,8	20,1 17,5	17	17,2	16,4	16.5	13,2		7.6
80 🚟	∃12,8 ₫	12,9	.13,1	13,7	13,9	14,4	14,3	14,6	15,2	.14,5	14,7	15	14.4	10		80
84	10,9	11		11,3	11,4	12	12,1	12,4	13	12,6	12,9	13,6	11,8	6,9	X 185 2 15	84
88	9	9,1	Carrier Carrier	9,8	9,9	10.000000000000000000000000000000000000	9,9	10,2	10,8	10,8	11,1	11,8	8,5	5,2 3.4		88
92	7,6			8,3	8,3		8,5	8,6	8,9	8,9	9,3	10	5,2	3,4		92
96	e andid			6,8		renalisi	7,3	7,4		7,4	7,6	8,2				96
100							6	6,2		6,3	6,5	6,9				100
104 108	arting as well	aretyleti disz	TET CERTINES COM	la di Antologia (2014) Partialista di Antologia	tricusculturi	PRESENTATION AND ADMINISTRATION OF	1101000000	Contract of the contract		5,3 4.2	5,3 4.2					104

&a	<u> </u>	.5) //														
		F 12	entre eleve Secondidados	Tarabata Tarabata	F 18		engeneralist Tantisticas	SL3 87			F 30	400 m/m/44.	Les de la Constantina	F.36	4	
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14	137			23.7						Table 1. Carrier					MEST CLUMION	14
16	136	123		99												16
18	131	119	72	96	85		77		ine e	HER TOTAL		HODEST	VENUE			18
20::::::	127	116	70	93	82		74	63		64		din Unit	58			20
22	122	113	68	90	7.9	49	71	60		61	51	CL-CESH OF THE	55	and the same of the same		
24	115	110	66	87	76	47,5	68	58	39	58	49		52	43,5		22 24
26 🗀	105	102	64	85	73	46,5	65	56	37,5	55	47		49.5	41,5		26
28	94	94	63	82	70	45,5	62	± 54	36,5	53	45	31	47.5	. 40		.28
30	84	85	62	79	68	44	60	51	36	50	43	30	45	38,5	26,1	30
32	78	78	60	76	65	43	58	49,5	35	48	41,5	29,2	43	36,5	25,3	32 34
34	73	73	59	72	63	∸42 ·	55	48	34	46,5	40	28,4	41	35	24,4	34
36	67	. 68	57	68	60	41,5	53	46,5	33	44,5	38,5	27,6	39,5	34	23.6	36
38	62	62	55	63	57	40,5	51	44,5	32,5	42,5	37	26,9	37,5	32,5	22,9	38
40	56	57	53	58	54	39,5	49,5	43,5	31,5	41	35,5	26,1	36	31.5	22,1	40
44 //	48	48,5	49	49	48,5	38	46	41	30,5	38::	33,5	24,7	33,5	. 29	20,9	44
48	41,5	42	43.	42,5	43	36,5	42,5	38,5	29,2	35,5	31,5	23,6	31	27,1	19,7	. 48
52	35	36	37	37	37,5	34	38	35,5	28	32,5	29,4	22,5	28,4	25,2	17,9	52
56	30,5	31	31,5	31,5	32,5	31,5	33	32	26,9	29,9	27,5	21,4	26,4	23,3	16,1	56
60	26,7	27	27,7	27,6	27,8	28,5	28,2	28,2	25,8	27,1	25,8	20,6	24,7	22,1	14,3	60
64	22,7	23	23,9	24	24,4	25,2	24,5	24,9	24,8	24,4	24	19,8	23.	20,8	11,5	64
68 72	19,4	19,5	20	20,5	20,9	21,9	21,4	21,8	22,8	21,6	. 22	19,1	21,3	19,6	8,3	68
76 - 1	16,7 14	16,9	17,3	17,3	17,5	18,5	18,3	18,8	19,8	18,8	19,3	17,9	18,8	17,6	5,1	72
80	11.4	14,2 11,6	14,7 12	14,9 12.6	15,1	15,7	15,2	15,7	16,9	16	16,5	16,1	16,2	14,5	3	76
84	9,8	9,8			12,8	13,4	13,3	13,5	14,1	13,2	13,8	14,2	13,7	.11,4		. 80
88	8,2	9,6 8,2		10,2 8,4	10,4	11,1	11,3	11,5	12,1	11,5	11,7	12,3	11,1	8,4		84
92	6.6	6.6			8,5 7,2	8,9	9,3	9,6	10,2	9,8	10,1	10,7	8,4	6,1	o Montenario Si succession	88
96	- 0,0	F. 0,0		7,1 5,8	6 -		7,6 6.4	7,6 6.4	8,2	8,1	8,4	9	5,8	4,3		92
100	21mm-925681			4.7	U		5,4 5,2		6,7	6,4	6,8	7,4	3,1			96
104	A PARK			7''			٠,٧	5,2 4		5,3 4,3	5,6 4,5	5,9	1009.37.40			100 104

A	V/A SL	<u> </u>						SL3 90								الله ا
Å m	F 10 0 1	F.12		SALA PROPERTY	F 18		1.0	F 24		1-12-25	F 30	**************************************	10000	F 36	Alkalomani. Nama	
⊸ l:m	10°	.::15° :	//30°	10°	15°	30°	10°	1.15°	30°	10°	"∷15°	30°	*10°	15°	30°	A A
14	135										11-1	******	A SHAPE	Allastrult Column		12
16	131	120		98									1000			16
18 📖	128	117	72	95	85		77									37.71
20 🕸	123	115	70	92	82		74	63		64			57	Pier.	lighter.	20
22	119	112	68	90	79	49	72	61	8000	61	51		55	Bare III		22
24	113	109	67	87	76	47,5	69	58	39	58	49		52	44		24
26	104	103	65	85	74	46,5	-66	56	38	.55	47		50	. 42		26
28	94	<u> 94</u> -	63	82	714	45,5	63	54	37	53 <u></u>	45,5	31	47,5	40,5		
30	85 77	86	62	78	68	44,5	60	52	36	51	43,5	30	45,5	38,5	26,1	30
32		77	61	74	66	43,5	58	50	35	48,5	41,5	29,3	43	37	25,3	32
34 36	72 67	72	59	71	64	42,5	56	48,5	34	47	40	28,5	41,5	35,5	24,5	34
38	61	67	57 🕍	67	62	1,41,5	54	.: 47	33,5	45	39.	27,7	40	34	23,7	36
40	56	62 57	55 52	62 58	58 55	40,5	52	45	32,5	43	37,5	27	38,5	33	23	38
44	47.5	47,5	48	49	48.5	40 38.5	49,5	44	32	41,5	36	26,3	36,5	31,5	22,2	40
48	41	41.5	42,5	42	40,5	37	45,5	41,5 39	30,5	38,5	34	24,9	34	29,3	21	44
52	35	35,5	37	36,5	37	34.5	41,5 37	36	29,4 28,2	36	<u> </u> 32	23,7	31,5	27,4	19,8	48
56	30	30,5	31,5	31,5	32	31,5	32,5	32	20,2 27	33,5 30	29,9	22,7	29,1	25,6	18,2	52
60 ⊞ંો	26,3	26.5	27,2	26.9	27,2	27,9	28	82 28,2⊲	25.4	27,1	27,8 25,6	21,6	26,7 24,6	23,8	16,5	56
64	22,5	22,8	23.6	23,6	23,9	24,7	23.9	24,3	23,9	23.9	23,5	20,7 20	22,5	22,3 21,1	14,7	60
68	18,7	19	19,9	20,2	20,6	21,5	20,9	21,3	22,2	20,9	21,3	19,3	20,5		12,4	64 68
72	16.2	16.3	16,8	16.9	17,3	18.3	17.9	18,4	19.4	18,2	18,7	18,6	18.2	19,9 18,6	9,3 6,2	72
76	13.6	13.8	14.3	14.4	14.6	15.1	15	15,4	16,5	15.5	16	16,4	15,7	15,7	3,4	76
80	11.1	11.3	11.8	12.3	12,5	⊭13 · ·	12,6	12,8	13.7	12,8	13,4	14.2	13,2	12,7	Y.T.	7 0 80
84	9	9,1	9.3	10,2	10,4	11	10,8	11	11.6	10,6	10,8	12	10.8	9,8	A DESCRIPTION OF THE PARTY OF T	84
88	7.7	7,7		B.1	8.3	8.9	9	9,2	9.8	9,2	9,4	10	8.4	6,9		88
92	6.3	6,3		6.8	6.9		7,3	7,5	8	7,7	7.9	8,6	6,2	5,2	PACTED.	92
96	4,8	4,8		5,6	5,7		5.9	6	6.3	6,2	6.4	7,1	3,9	3.5		96
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	93 m	12 – 30 n		0 t									
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22	116	111	69	89	80	49	72	61	·Larry Lt. About	61	51		22
24	111	107	67	87	77	48	69	59		58	49,5		24
26 28	102	102	65	े 85	74	46,5	66	57	38	56	47,5	HUSTANIA	26
28	93	94	64	82	71	45,5	64	54:	37	54	45,5	31	28
30	84	85	62	78	69	44,5	61	52	36	51	44	30	30
32 34	75	. 76	61	73	67	43,5	59	51	35	49	42,5	29,4	32
34	70	. 70	. 60	69:::	65	42,5	57	49	34	47,5	40,5	28,6	34
36	65	65	58	65	63	42	55	47,5	33,5	45,5	39,5	27,9	36
38	60	60	55	61	59	41	. 52	46	32,5	44	38	27.1	38
40	55	56	52	57	56	40	50	44	32	42	36,5	26,4	40
44	45,5	46	46,5	48	48,5	38,5	45	41,5	30,5	39,5	34,5	⊍ે 25,1 ે	44
. 48	40	40,5	. 41	40,5	41.	37	40,5	38,5	29,6	36,5	32,5	23,8	48
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60 E	28,7 25	29,1	30,5	30,5	31	31,5	31,5	32	27,3	31	28,3	21,8	56
64	21,4	25,3 21,7	25,9	25,6	26,3	27,4	27	27,7	25,2	27,1	25,6	20,8	60
68		18,1	22,4 18.9	22,3 7 19,1	22,6	23,4	22,7	23,5	23 🗀	23,4	22,8	19,9	64
72	17,8 14,8	15,1	15,4	15.9	19,5 16,3	20,3 17,3	19,6	20	20,8	19,7	20,1	18,9	68
76	12,6	12,8	13,2	13	10,3		16,7	17,1	18,2	17,1	17,5	18	72
76 80	10,3	10,6	11	11,1	13,2 11,3	14,2 11,8	13,8 11	14,3	15,4	14,5	14,9	16,2	76
84	8	8,3	8,8	9,2	0.4	9,9		11,4 9,6	12,6	11,9	12,4	13,8	80
88		6,3	6.6	7,3	9,4 7,5	8,9 8	9,4 7,8	9,6 8,1	10,1	9,3 8	9,9	11,4	84
88 92	6,1 4,2	4,4		5,6	5,7	6.1	6,3	6,5	8,6 7,1		8,1	9,1	88 92
96				4.3	4,4	٠,١	4,7	5.5	5,6	6,6 5,3	6,8 5,5	7,6 6,2	92 96
100	2) ye ade panyagan da	Property the property of	Landed to be called by a		3		3,7	3,9	4,2	4	4,2		100
104								٠,٠	7,5		3.1	4,9 3.5	100

* Das Aufrichten/Ablegen dieser Auslegerlänge muss über die Stützbasis 17,6 m erfolgen · The erection/dismantling of these boom lengths has to be effected with the support base 17,5 m TAB 181099

Le relevage/dépose de cette longueur de flèche doit être effectué sur la base de calage 17,5 m · Il sollevamento/abbassamento di questa lunghezza braccio è possibile con base di stabilizzazione da 17,5 m

El levantamiento y descenso de esta longitud de pluma debé hacerse por encima de la base de ароуо de 17,5 m · Установка/укладка при этой длине стрелы должна происходить с опорной базой 17,5 м

	96 m	12 – 24 m	190 t							
	<u>//</u> (≱/SL3]⊹[<u> </u>	SL3 96					
	Prince and a second	F 12	19.38	100000000000000000000000000000000000000	F18		. 12 km; 12 km; 12 km; 10 km	F 24*		- <i>B</i>
<i>Ø</i> → m	10°	∜ 15°	30°	100	15°	30°	10°	15°	30°°	- B _
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	117	107	71	87	78		Parati and			16
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24	106	98	66	79	72	47,5	64	57	inglikasi estina	24
26	100	94	65	77	70	46.5	62	56	37,5	26
28 30	92	.88	63	74	68	46,5 45,5 ()	60 1	54	36,5	28
30	83	82	62	71	66	44.5	58	52	35,5	30
32	75	75	61	69	65	43,5	57	50	35	32
34	69	69	59	66	63	42,5	57 55	48,5	34	34
36	64	64	58	63	62	41,5	54	47	33	36
38	59	60	55	60	60	41	52	45.5	32,5	38
40	55	55	52	.56	56	40	50	44	32	40
.44	45	46	46	48	48,5	38,5	45	41	30,5	44
48	39,5	39,5	40,5	40	41	37	40	38	29,4	48
52	34	34,5	35,5	35	35,5	36	35.	35	28,4	52
56	-28,4	28,9	30	30	30,5	32	31	31,5	27.3	56
60	24,3	24,5	25,2	25,4	26	32 27,5	26,6	27,2	25.2	60
64	20,8	21,1	21,8	21,6	21,9	23,1	22,4	23,1	25,2 22,7	64
::68	17,4	17,70	18,5	18,4	18,8	19,7	18,9	19,3	20,1	68
72	. 14	14,2	15,1	15,3	15,7	16,7	16,2	16,6	17,6	72
76	11,9	12,1	12,4	12,2	12,6	13,6	13,4	13,9	14,9	76
80	9,9	10	10,4	10,2	10,4	10,8	10,7	11,2	12,3	80 🗆
84	7,9	<u> 8' </u>	8,4	8,6	8,7	9,1	8,7	8,9	9,7	84
88	6	6	6,3	6,9	7	7,5	7,3	7,4	7,9	88
92 1.96	4,8	4,8	er talkarının olduğun olduğun barı	5,3	5,4	5,8	5,9	6	6,5	92
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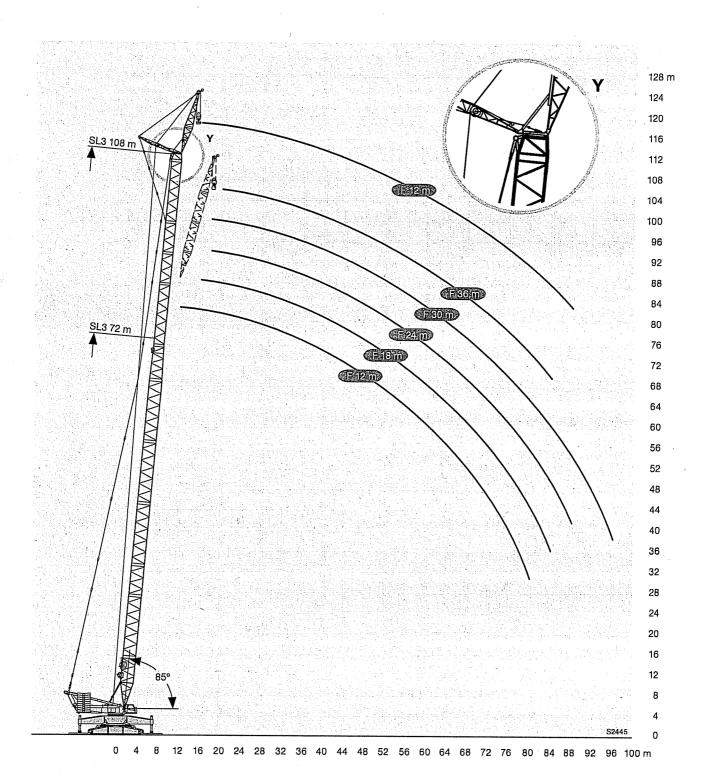
Das Aufrichten/Ablegen dieser Auslegerlänge muss über die Stützbasis 17,5 m erfolgen. The erection/dismantling of these boom lengths has to be effected with the support base 17,5 m. TAB 18109:

Le relevage/dépose de cette longueur de flèche doit être effectué sur la base de calage 17,5 m. Il sollevamento/abbassamento di questa lunghezza bracclo è possibile con base di stabilizzazione da 17,5 m. El levantamiento y descenso de esta longitud de pluma debe hacerse por encima de la base de ароуо de 17,5 m. Установка/укладка при этой длине стрелы должна происходить с опорной базой 17,5 м.

99 – 108 m 12 – 36 m 190 t

	SL	3-1	F _F			1	1									
	100	F 12	<u> JSL</u>	3 99```			Barrens	SL3 10	21 - 21	100	SL3 10	5		SL3 10	8	Å m
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16	118	109	ile on	10.2	F. 19		10%	15	30°	10%	15°	30°	10°	15°	30°	/√ → m
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20	147	103	70	84	⊮76:		106	98		104	97		92	87	New Part Con	18
22	107	100	68	81	76 74	48.5	103	95	70	101	94	70	89	84	70	20
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26	98	95	65	77	72 70	47,5	97 94	90	67	96	89	67	84	79	67	24
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32	74	75	61	68	65	44,5 43,5	81	78	62	80	78	⊪63 <u>∃</u> ⊮	73	70	62	30
34	67	68	60	65	62	42,5	74 67	73 68	61	73	73	61	69	67	61	32
36	63	63	59	62	60	42,0	62	63	60 59	67	67	60	65	63	59	34
38	58	59	56	58	58	41	58	59	58 58	61 57	61:	58	60	60	57	: 36
40	54	54	53	54	55	40.5	54	54	54		57	57	56	56.	· 56	38
44	44,5	45,5	46	47	47,5	38.5	45.5	46	47	53	53	54	53	53	54	40
48	38	38	39,5	39.5	40.5	36	38	38	40	44,5 36,5	45 37,5	46,5	45	45,5	47	44
52	32,5	33	34	33,5	34	34	33	33	34	31,5	37,5 32	39,5 33	37	38	40	48
56	27,5	28	29,2	29	29,5	30,5	27,9	28,3	29,4	26.8			_31,5 ₀	32	33	52
60	22,9	23,1	24,3	24,5	25,1	26.5	22,9	23,4	24,8	20,0	27,2	28,3	27	27,4	28,5	56
64	19,5	19.8	20,5	20,2	20,6	22,3	19.5	19,8	20.5	18.3	22,5 18,5	23,8 19,3	22,4	22,9	24,1	60
68'	16,1	16,4	17.2	17,3	17,6	18,4	16.3	16,6	17,4	15,3	15,6	16,3	18,2 15,4	18,4	19,8	64
72	12,8	13,1	14	14,3	14.7	15,6	13	13,4	14.2	12,3	12,6			15,7	16,3	6B
76	10,3	10.4	10.8	11.4	11.8	12.7	10	10.2	11,1	9.4	9,7	13,4 10,5	12,6 9,8	12,9 10,2	13,6	72 76
.80:	8,6	8.7	9	8.9	19.	9,9	8.4	8.5	8,8	7,3	7,4	7,7		7.5	10,9	
84	6.8	6,9	7,3	7,4	7,5	7,9	6,7	6,9	7,3	5,8	5.9	6,2	7,2 5,7	1 30 30 42 7 50 Cm Salasia	. 8,2	80
88	5	5,2	5,5	5,8	6	6,4	5,1	5,3	5,7	4,3	4,4	4,7	4.3	6 4,5	6,3	84
92	3,6	3,8	3.9	4.3	4,5	4,9	3,5	3,7	4.1	7,0	7.7	3,2	٠,٠	4,5 3	4,8 3,3	88
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^{*} Das Aufrichten/Ablegen dieser Auslegerlänge muss über die Stützbasis 17,5 m erfolgen · The erection/dismantling of these boom lengths has to be effected with the support base 17,5 m — TAB 181098
Le relevage/dépose de cette longueur de flèche doit être effectué sur la base de calage 17,5 m · Il sollevamento/abbassamento di questa lunghezza braccio è possibile con base di stabilizzazione da 17,5 m
El levantamiento y descenso de esta longitud de pluma debe hacerse por enclima de la base de apoyo de 17,5 m · Установка/укладка при этой длине стрелы должна происходить с опорной базой 17,5 м



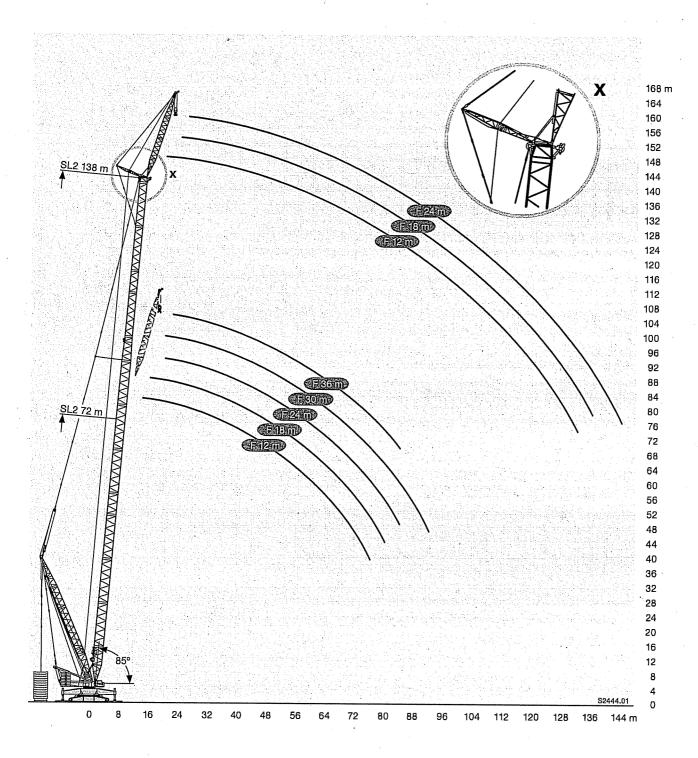
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		72-	- 102 1		Na S	36 m	12	- 36	74 I					150 190)t*)t**			150	- 350 - 250 - 150	ī			,								
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22	** *B	136 137	91 91	73 72	62 62	59 59	137 137	93 93	74 74	63 63	60 60	137 137	95 95	75 75	64 64	61 61	126 128	95 93	76 76	64 64		124 131	. 98 96	77 76			120 124	94 93	76 75		
24	**	118 126	86 86	68 68	58 58	56 56	117 126	88 88	70 70	59 59	57 57	115 125	90 90	71 71	61 61	58 58	111 119	91 91	72 72	61 61	58 58	108 116	95 95	73 73	62 62	58 58	104 111	90 91	73 73	65 65	58 58
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26	** *B	116 129	82 82	65 65	55 55	53 53	114 131	84 84	66	56 56	54 54	113 130	86 86	68 68	58 58	55 55	108 119	87 86	69 69	58 58	55	107	92	70	59	56	104	88	70	63	56
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30		89 97	74 74	59 59	49,8 49,8	47	88 96	76 76	60 .60	51 51	48,1 48,1	85 93	79 79	62 62	52 52	49,2 49,2	82 89	77 80	63 63	53 53	50 50	80 88	80 83	64 64	54 54	51 51	79 87	78 81	65 65	58 58	52 52
	*B	116 81	74 71	59 56	49,8 47,3	47,1 44,7	120 80	76 72	60 57	51 48,7	48,1 45,9	122 78	79 75	62 59	52 49,9	49,3 46,9	111 75	73	63 60	53 51	50 47,4	116 71	73	64 62	54 52	51 48,8	110 71	82 71	65 62	57 55	52 49,3
32:	** *B	88 110	71 71	56 56	47,3 47,3	44,7 44,7	87 115	73 73	57 58	48,7 48,7	45,9 46	86 118	75 75	59 59	49,9 49,9	46,9 46,9	83 107	77	60 60	51 51	47,4 47,5	79 112	77 82	62 62	52 52	48,8 48,8	78 107	75 80	63 63	55 55	49,3 49,5
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36	**	75	65	51	43,2	40,1	72	68	53	44,3	41,6	72	68	54	45,5	42,9	70	64 68	55 55	46,6 46,6	43,7 43,7	60 67	69	57 57	48 48	44,8 44,8	61 65	60 66	57 58	51 51	45,3 45,3
7	*B	63	65 61	51 49,2	41,4	40,2 38,5	105 I	68 61	53 51	44,4	41,6 39,8	109 58	70 60	55 53	45,5 43,8	42,9 40,8	100 57	71 59	55 53	46,6 44,6	41,8	106 55		57 54	48 45,9	44,8 43	101 56	75 56	58 55	51 49,2	45,6 43,6
38	*B	69 97	62 62	49,2	41,4	38,5	67 101	65 65	51 51	42,7 42,7	39,8 39,8	65 105	64 67	53 53	43,8 43,8	40,8 40,8	63 96	63 69	53 54	44,6 44,6	41,8 41,7	61 103		55 55	45,9 46	43 43	60 98	62 73	56 56	49,2 49,2	43,6 43,8
40	**	58 64	58 60	47 47	39,6 39,6	36,8 36,8	56 63	57 61	48,9 48,9	41 41	38,2 38,2	56 60	55 60	51 51	42,2 42,2	39,3 39,3	52 57	54 59	50 52	43 43	40 40	51 56		51 52	43,9 44	41,1 41,1	52 55	52 58	52 53		42 42
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44	** *B	46,7 94	47,5 69	47,9 52	44.5 45.4	39,9 39,9	46,1 91	46,3 68	47,5 53	45,6 45,9	40,5 40,5	45 88	45 67	46,4 54	44,8 46,8	41,3 41,2	43,7	43,6	44,2	41,7	38,5	42,6	43,6	42,7	39,9	36,8	38,5	40,9	39,6
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64	**		15,4 19,9	18 22,4	19,6 21,7	18,6 22		13,5 18,1	17	18,5	19,1	9,5	14,1	16,2 20,3	17,1	18,1	9,6	13,2	14,6		17,4	9,3	12,3	10,9		10,4	6	8,4	8,4
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72	** *B	8,8 68	12,7 48,5	14,4 35,9	15,3 30,3	13,9 25,7		10,8 49,7,	12,7	14,7	14,4	8,1 66	10,2	12	14,2	15,5	6,5 60	8,8	11,7	13,4	15.2	5,9 55	9.1	7.9	9.2	9.6	47 2	5,4 40,1	7
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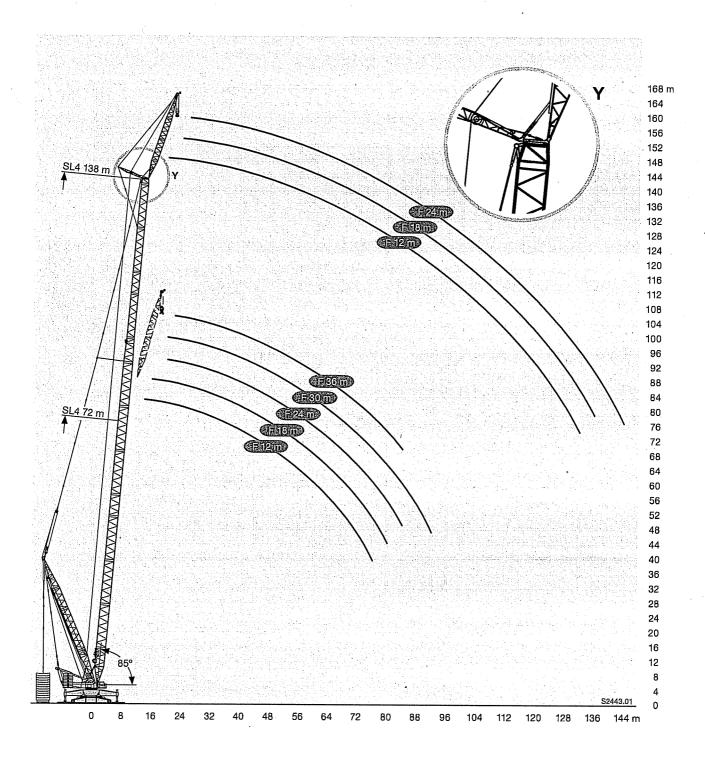


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52	*	41,3 45,4	42,1 45,8	38,5 38,8	32,6 32,6	28,6 28,6	40,4 44,9	40,5 45,3	40,1	34,2 34,2	29,8	38,7	38,8	38,8	35,5 35,5	30,9	36,3	37,3	38,1	35,5 36,4	31,5		37,5	36,9	36,6	32,8	33,5	36,1	35,1	34,7 38,5	33,2
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60	*	31,8 36	34 36,6	32,9 34,2	28,8 28,8	24,7 24,7	30,4 34,6	31,8 35,2	31,6 34,4	29,5 30,1	25,7 25,7	28,5 32,7	31,5 33,8	31,1 34,3	30,2 30,8	26,8 26,8	31,3	33,8	33,2	28,8 32	27,5 27,8	24,9 29,3	27,3 31,6	27,2 31	27,6 30,4	26,3 28,4	23,4 27,8	26,2 30,4	27,1 30,2	27,2 30,1	26,3 28,1
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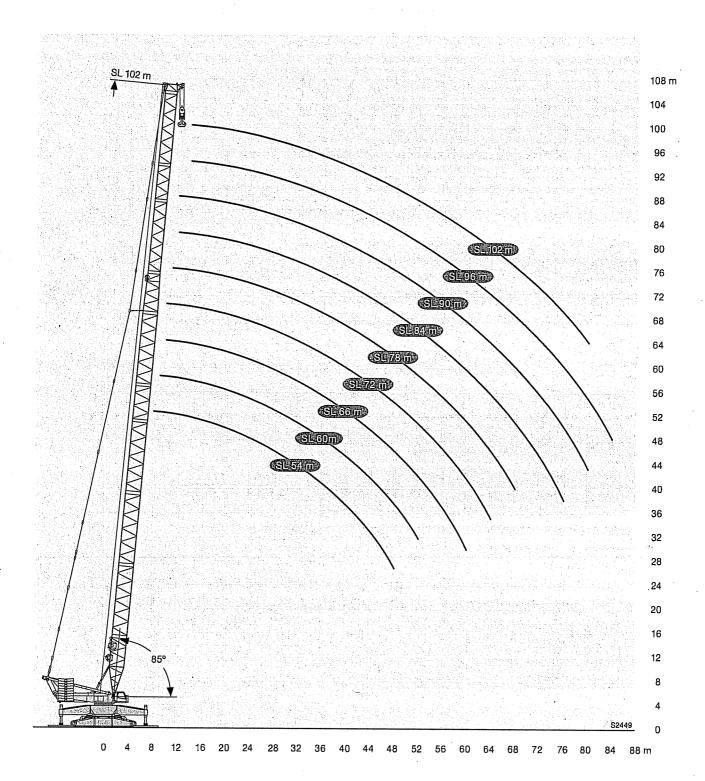
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24	** *B	114 119	96 90	76 74	66 64		111 113	88 87	71 71	60		108 106	87 83	71 68	P		100 95	80 76	67 63			88 86	74 70				81 76	66 63	
26	**	97 105	90 93	73 73	64 ·	57 57	96 102	88 88	71 71	62 62	53 53	95 99	85 86	71 71	60 60	53 53	90 94	79 79	66 66	56 56	5444	85 88	73 73	61 61	53 53	· · · · · · · · · · · · · · · · · · ·	77 79	65 65	53 53
	*B	117 89	88	72 71	62 61	55 55	111 87	85 82	69 71	59 60	53 53	105	82 80	67 70	57 59	49,9 53	1.000	75 76	62 65	54 55	46,5 49,3	85 79	69 71	58	50	45.0	75	62	53
28	** *B	98 114	91 85	71 70	61 61	55 54	95 109	87 83	71 68	60 58	53 52	93	83 80	70 66	59 56	53	89	77	65	55	49,3	84	72	61 61	53 53	45,8 45,8	1 .	65 65	53 53
30	*	81 90	82 87	68 68	59 59	53 53	80	79 85	70 70	58 58	53 53	78	76	68	58	49,6 53	76	72	61	53 55	46,3 48,8	74	69 68	60	50 52	42,4 45,6	74	61 63	52 53
	*B	111	83 75	68 66	59 56	52 51	106	81	67	57	51	102	81 79	69 65	58 55	53 49,4	91 91	75 72	64 60	55 52	48,8 46,1	81 83	71 67	60 57	52 49,5	45,6 42,4	75 73	64 61	53 52
32	**	82	80	66	56	51	73 81	74 80	68 68	57 57	52 52	72 80	73 79	67 67	57 57	51 51	70 78	69 74	62 63	54 54	48,2 48,2		66 70	59 60	52 52	45,5 45,5	67 74	61 64	53 53
Fig. 1	*B **	108	69	65 62	57 54	50 48,5	104 66	69	65 65	55 55	50 50	100 65	78 68	64 65	54 55	48,5 50	90 64	71 66	59 61	51 53	45,3 47,4	82 64	67 64	56 58	48,8 51	42,4 44,9	72 62	60	51 53
34	*B	74 105	74 79	63 63	54 54	48,5 48,3	73 102	74 78	65 64	55 54	50 49,1	73 98	74 76	66 63	55 53	50 47,8	72 89	71 69	62 58	53 49,5	47,4 44,5	71 81	69 66	59 55	51 48	44,9 41,7	69 71	63 59	53 50
36,	i.	61 67	63 68	59 61	52 52	46,5 46,5	59 66	63 68	60 62	52 53	48,5 48,5	59 66	63 68	61 63	53 53	48,9 48,9	59 66	62 66	59 61	52 52	46,6 46,6	60 65	60 64	57 58	51 50	44,4 44,4	56 63	58 61	53 53
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38	** *B	63 100	63 75	59 59	50 51	44,8 44,8	62 98	62 74	59 61	51 51	46,8 46,6	60 94	62 73	59 60	51 51	47,6 46,2	59 86	61 67	57 55	51 47,5	45,9 42,7	59 79	60 64	56 53	49,9 46,5	43,8 40,9	57 69	56 57	52 48.9
40	ra ta	54 58	54 60	53 57	48,6 48,6	43,2 43,2	52 59	52 58	52 57	48,6 49,3	45,1 45,1	51 57	52 57	52 56	47,9 49,8	45,4 46,1	50 55	52 56	51 53	47,4 48.7	44,4 44,8	50 54	51 55	49,8 52	47,4 48,1	43,2 43,2	45,4 52	48,9 52	48 49,3
	*B	98 45,5	73 45,9	57 46,3	48,7 44,4	43,1 39,9	96 44,6	73 44,8	59 46,2	49,1 45,3	45 41,9	93 43,7	71 45	59 44,5	49,5 43,5	45 42	84 42,4	65 42,9	54 43,2	46,3 41,8	41,9 39,9	78 41	63 41,6	52 42	45,6 41,2	40,3	68 37,6	56 39,9	48,2
44	**. *B	49,9 93	52 69	50 54	44,9 45,4	39,9 39,9	50 91	50 69	51 56	45,9 45,8	41,9 41,8	, ,	49,5 68	49,8 56	46,4 46,7	43 42,4	48,2 81		48 52	45,2 44,4	42,3 40	46,7 75	47,1 61	46,2 51	43,9 44	40,4 38,8	43,5 66	45,1 54	44,1 46,8
48	**	37,2 42,3	38,5	39,7 43,6	38,9 40,9	35,9 37,2	36,9 42,2	38,7	39,8 44,1	39,4 40,8	37,5 38,3	36,5 41,8	39,8	38,7 43,7	39,1 41,7	38,8 39,6	35,5 41	38,9 41.9	37,5 43	37,6 42,4	36,8 39,8	34,4	37,6	35,3	36,1	34,9	30,9	33,4	34,7
	*B	89	65	50 33,7	42,7	37,5 32	87	66	53 33,4	43,2	39,2 32,7	86	66	53 32,7	44,2	40	78 28,6	60	50	42,4 33,1	38,2	39,9 73	43 59	40,6 48,7		38,6 37,4	36,5 64	38,8 53	40,1 45,2
52	** *B	36,7		37,8 47	37	34,8 35		36,9	37,1	36,2	34,8		36,4	37,5	36,3	35	33,9	36,5	36,9	36,7	35,2	33,2	37	34,6	30,8 35,9	36	29,4	27,3 32,5	34,4
56	**	26,4	29,5 34,1	29,9 33,3	29,4	28,3 32,4	25,5	28,3	28,3	28,5	28	24,5	27,5	27,8	28,5	28	23	27,1	48 27,8	27,9	27,5	21,5	26,1	23,7	40,8 25,4	25,8		51 21,2	
	*B	79	59	44,6	37,4	32,5	79.	60	46,7	31,9 38,2	34,6	79	60		39,2	35,5	72	56	30,9 46,1	39	35	68	55	45,5	30,4 39,4	34,6	59		42,3
60		25,7		26,5 29,1	29,9	25,7 28,9	THE PERSON NAMED IN COLUMN	28,3		28,6			27,3	27,9		26,7	23,3		26,6		25,9	17,4 22	25,2	18,1 22,7		20,8 25,6	14,6 19	16,3 20,9	23
	*B		20,2	22,4		30,6 21,9	16,3		21,3	36,2 22,9	20,7	15	18,7	45,7 20,4	21,6	19,6	69 14		19,3		19,1	65 13,2		43,7 14,8	38 15,6	33,2 15,7		47,1 12,8	
64	** *B	73	53		33,6	28,9	72	55	42,2	25,6 34,4	30,7	19,3 72	55	43,4		31,5	18,6 67	51	42,4	23,5 35,6	31,6		20,7 50		19,9 36,5		14,6 54	17 45,3	18,4 39,1
68	**	17,8	20,5	18,3 21,9	22.1	18,2 21,4		19,4	21,5	19,3 22,4	21,2	15,9	18,6	16,5 20,7	22,4	20,2	10 14,3	13,6 17,8	15,8 19,6	17,4 21,4	17 19,1	9,1 13		11,4	12,5 16,4	12,6	6,8	9,4 13,1	11
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72	** *B	13,8	17		19,7	18,2	13	16,1	17,5	19,2 30,9	17,5	12,7	15,1	16,8 39,3	18,9	16,6		13,6	15,8	17,9		9,8	12,6	11,2	13	13,6	7,4	9,2	11,5
NAME OF	FRENC.	67 S.N.	Spirit.	W. P.	404) 5	Property.	14.4		14.14		1000										14		TU,C		TAB 18				

t tomorum extension	OMETICAL DESIGNATION OF THE PARTY OF THE P	108-138 m	36		12 – 36 m	nyanyu i				150 190				250 – 350 t 150 – 250 t 0 – 150 t								
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76	** *B	7,7 10,1 12, 11,2 13,4 15, 66 46,3 35,	3 17 1 29	11,8 15,5 24,5	9,4 12, 65 48,			13,9	6,5 9,5 66	8,9 12,3 49,6 (13,3		13,1	8,8 11,		11,2 14,4 30,6	13,8	7,5 9,1	8 9	,5 7,2 ,5 10,4 ,5 27,8	5,3 6,	
80	** **	5,7 7,5 9, 8,8 10,6 12, 65 44,8 33,	1 14,2 5 27,6	23,3	7,5 9,	6 11,7 6 35,4	28,4	24,8	6,6 63	6,5 9,4 47,8		29,1	9,8 10,6 25,5	5, 6,1 8,	4 6,5 6 9,4	8,1 11	9,5 11,4		6,1 6	,8 7,3		5,8
84	** *B	63 43,2 32,	1 11,4 1 26,4	22,1		6,2 3 8,9 1 33,9			61	6,6 46,2	5,6 8,5 34,9			6, 56 43,	2 7,4 6 35,2	5,9 -8,4 28,3	6,8 9,2 24,8	5,1 53: 42,4	5 35,6 30	,1 5,5 ,1 25,3	45,6 37,	6 32,2
88	** *B	5, 6,5 7, 61, 41,6 31,	1 8,6	5,2 7,7 20,6	5,0 61 43,0	6,5 32,8		7,3	59	44,8	6,1 33,6 }	5 7,8 26,8	5,4 6,3 23,4	54 42,	5,4 3 i,34	6,7 27,2	7 23,8	50 / 41,1	34,6 29	24,3	43,7 36,	5 31,3
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96	** *B	56 : 39,1 29	5,4 23,4	14,7	55 40,8	30,6	24,1	17,8	54	41,9	31,5	24,9	20,3	51 ⊴ 340,6	i / 32	25,2	21,7	47,4 38,8	32,5 26,	8 22,4	41,5 34,2	2 29,5
100	** *B	53 38 28,2	22,5	11,7	52 (39,7	29,6	23,2	14,9	51,	40,7	30,5	24 🗓	17,6	48,9 139,7	/[31]	24,4	19,6	45,9 38	31,5 25,	9 21,5	40,6 / 33,6	6 28,6
104	** *B	49,5 37 27,3	21,8	8,8	48,5 38,6	28,7	22,3	12,2	47,5	39,7	29,5	23,14	14,8	45,8 38,9	30,11	23,6	<u>17,1</u>	44 37,3	30,7 25,	1 19,2	39,8 32,9	3 27,8
108	** *B	36 26,4	21,1	6,4	45 37,6	27,9	21,7	9,4	44,1	38,6	28,8	22,2	12	42,8 38,4	29,1	22,8	14,4	41,3 36,3	29,8 24,4	16,6	38 32,2	2 27,3
112	** *B	35,3 25,8	20,4		41,6 / 36,7	27,1	21,1	6,8	41.	37,6	28 2	21,6.	9,3	40,2 37,8	28,5	22	11,8	38,6 35,1	29 23,6	3∥14	35,8 31,4	1 26,7
116	** *B	25,2	19,8		36.	26,4	20,4		37,9	36,8 2	27,3 2	<u> 1</u>	6,8	37,5 37,2	27,8	21,4	9,1	36 34	28,4 22,8	3) 11,6	33,6 30,6	i
120	** *B		19,3			25,8	19,9		F	35,4 2	26,5 2	0,4		34,1 35,1	1 27,1	20,9	6,8	33,3 32,9	27,7 22,2	9,4	31,4 29,8	25,9
124	** *B		18,9			25,3	19,4		2000	33,3 2	25,9 1	9,9		32,8	26,5	20,3		30,4 31,4	27,1 21,6	7,1	29,1 28,9	25,7
128	*B						18,9			ΓŽ	25,4 · 1	9,4		30,3	26 4	19,8		27,9 29	26,5 21,1		26,9 27,6	25,5
132	** *B								1		1	8,8			25,4	19,4		26,7	26 20,5		24,6 25,6	25,3
136	** *B															19.			24,8 20		23,5	23,8
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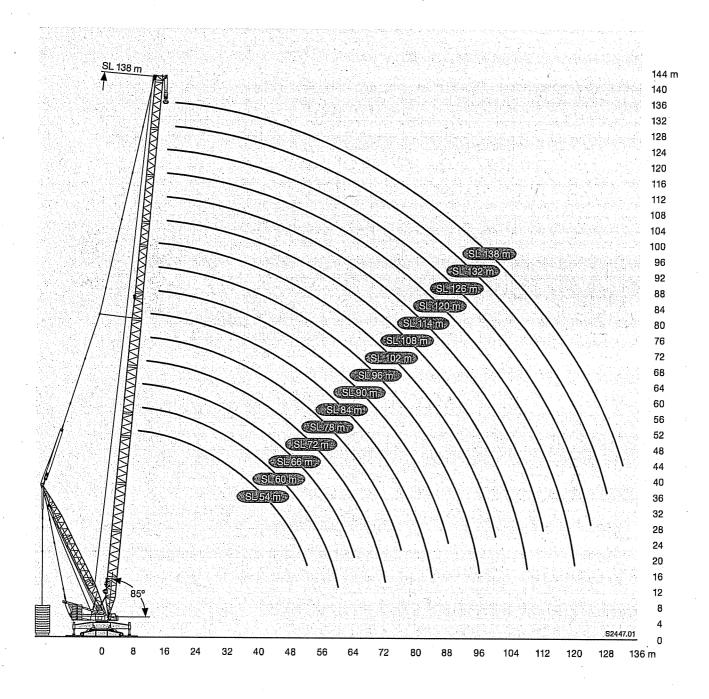


778 NO 1811	54 – 102 m	190 t				alientifeenten jongoonaa ennoema tange	······································			
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16 ;	195:	194	188	187	187	184	179	174	// 153 m	16 : 16
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34	75	2 72 St	70	(j. 69	68	65,	65	64	63	34
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40	59	56	55	52	52	51	49	47	46,5	40
44	50	48,5	46	44,5	44	42	41	40	38,5	44
48	44	41,5	40	37,5	37,5	36	33,5	33	32,5	48
52	e vinen america	36,5	34	32	31,5	30,5	28,8	27,2	26,1	52
56			29	26,3	27,3	25,3	23,8	23,1	21,8	56
60 1			24,2	21,5	23,2	22	19,2	18,9	18,4	60
64				17,6	19,5	18,6	16,6	15,1	15	64
68		l analysis in the parties	Transcrate Engagement		17,2	15,5	14,1	12,9	11,9	68
72						13,5	11,6	10,7	9,9	72
76				MERTER HERE		11,5	9.0	8,5	7,9	76
80							6,5	6,8	5,9	80
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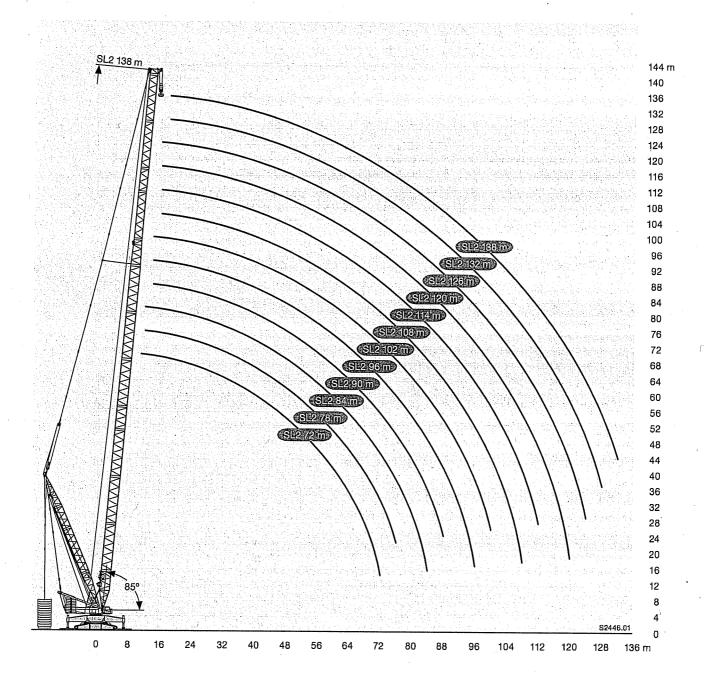
						150 t* 190 t**		50 – 350 t 50 – 250 t 0 – 150 t							
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*B	321	Language many research					ACTION TO A SHARE OF A			1		1			86 83
	134	133	130	127	129	127	124	120	122	122					85
Carlotte and	146	146	142	139	141	139	136	132	133	130	128	123	112	98	85
									170	136	151	132	113	96	82
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*B	THE PERSON NAMED IN							Comments with a series						1.00	82 81
101	108	105	105	104	103	100	99	98	98						75
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*B		THE PROPERTY AND ADDRESS.				STATISTICS CARRIED	A SHARE WATER TO A STREET WATER TO THE PARTY OF THE PARTY				a compression of the property		the strategic section is		76 79
10.7°	88	87	86	83	85	83	81	78	77	77					67
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*В		AND RESIDENCE OF THE PARTY OF T	I remove the same and the same of the same								Attacked accessors	and the second second			69 77
Ci i *iii	74	72	71	70	69	67	67	66	65	63					56
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2.57.100.0									I						50
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*	63	62	60	57											44,2
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**	55	54	52	51	51	48,4	47,9	46,3	45,5	43,9	41		40,3		37,6
*B	176	176	173	173	173	169	166	152	124	92	129	112	96	80	68
245.55.68	43,2		39,9	37,6	38,4	36,6	34,4	33,3	33,1	32,2	28	26,2	26,2	25,2	25,6
Lancas .													32,1	30,5	30,5
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海田市場	42,3	40,9	38,9	37,5	36,7	35,8	34,3	32,1	31,7	31,3	27,8	26,9			19,1 23,3
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		54 – 138		36 m			150 t* 190 t**		50 = 350 t 50 = 250 t 0 = 150 t						4	
m		//8 s	L \ \	Ø D :[□ -	<u> </u>			В	0 t 3L 54 – 1	38						7.17
A		54)	60	66	72	78	84	90	96	102	108	114	120	126	132	138
56	* *B		31,1 35,6 122	29,2 33,8 129	27,6 32,1	27,6 32,2 130	25,4 29,9 127	24 28,9 126	23 27,3 113		20,1 25,1	17,8 22 109	17,6 21,9	16,7 21,3	14,5 18,7	13,8 17,4
60	**		27,6 31,8	25,2 29,4	23,4 27,6	23,2 27,6	21,9 25,9	19,3 23,9	18,7 22,5	18,6 22,6	66 17,1 21,4	13,4 17,1	97 13,3 17	82 13 17,1	68 11,3 15,1	57 10,8 14,4
	*B	7	*99°	115 21,7	118 20,1	119 19,5	117 18,4	114 16,6	102 14,9	85 15	59 14,2	102 10,8	94	79 (1 9,3	66 8,2	7,9
64	*B			25,6 97	23,9 107. 17,2	23,5 108 17,1	22 106 15,2	20,7 103 13,9	18,2 92 12,6	18,5 78 11,9	18 53	14,3 95	13,3 90	12,8 76	11,5 63	11,3 52
68	** *B				20,5	20,5 96	18,3 96	17,5	15,6 83	14,9	11,3 14,6 47,6	8,3 11,5 89	7,7 10,8 84	7 10,1 72	5,2 8,1 60	5 8,2 49,9
72	**				15,4 18,4	14,7 17,5	13,1 16,1	11,3 14,4	10,2 13,1	9,8 12,7	8,7 11,6	5,8 8,7	5,4 8,3	7,8	6,2	5,7
76	*B				7.2	84 12,8 15,5	84 11 13,9	81 9,5 12,4	76 7,9 10,5	63 7,7 10,5	42,5 6,9 9,7	6,3	79 5,8	69	57	47,3
	.*B	4				75	74 9,4	71 7,8	70 6,2	5,6	38,1 5	77	74	5,5 67	55	45,2
.80	** *B						12,1 65	10,5 63	8,7 62 (8,3 51	7,7 33,7	72	69	65	53	43,3
84	** *B						8,5 11 49,1	6,1 8,7 56	7 55	6,6 45.2	5,7 29,4	67	3·64 S	- 61 d	27 51 77	41,7
88	*						171	7,3	5,3	5,1						
92	*B							48,2	47,6	40,3	25,4	- 62	60	58	49,1	40
	*B								-41,8	35,4	21,6	57	56	54	46,9	38,7
96	** *B								30,3	30,3	17,7	53	52	/50 %	44,7	37,9
100	.** *B									23,8	13,9	48,5	47,8	46,2	42,5	37
104.	**										10,0		J. 11,0		42,0	377.5
108	*B										10	44,2	44,1	42,9	40,3	36,2
	*B					Fair, or Na						39,5	40,3	39,5	37,4	35,4
112	** *B											24,3	36,6	36,2	34,4	33,3
16	** *B														- A2-77	
120	#**				11.								32,3	32,8	31,4	30,6
124	*B	ACCOUNTY												29,5	28,4	28
124	*B	7													25,4	25,3
128	** *B														20,1	20,6
132	* ** *B															
100								<u></u>			44.15.1443 11.1413			VKTAB 1812	254 / 18125	18,4 181222

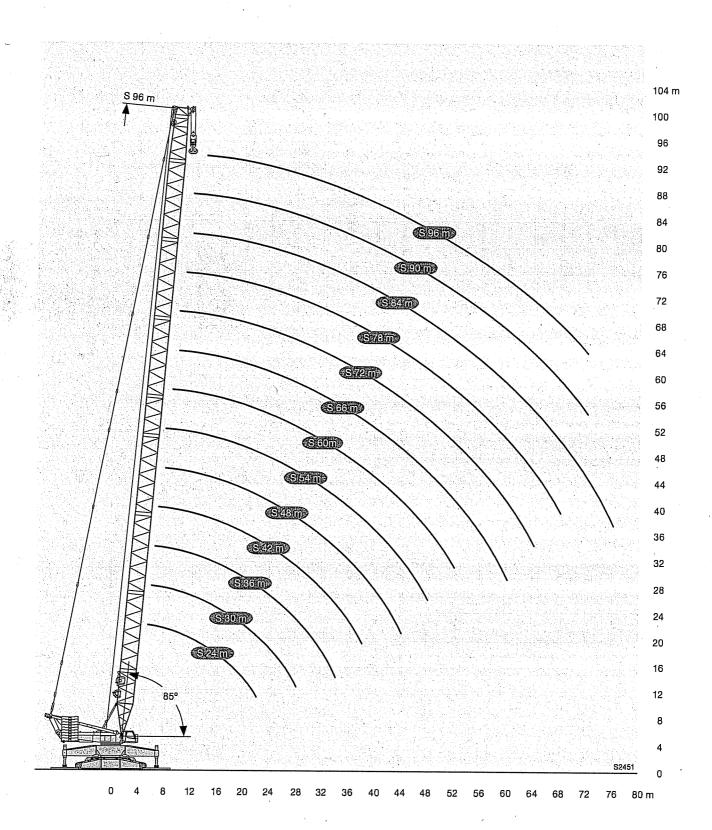


gyengine coo		72 – 138 m	36 m			190 t**	250 = 3 150 = 2 0 = 1	50 t 50 t				-	
m.	B	V/// OLZ	(<u>0 t : : : : : : : : : : : : : : : : : : </u>					
Á	Y	72.	78	84	90	96	102	108	114	120	126	. 132	138
11	* ** *B	292 295 293											174 (1744)
12	D:	267 276	266 274	261 272									
	*B :	294	281	265	100								
14		224 242	219 237	220	213 225	210 221	205 214						1490
	*B	295	282	266	242	229	210		1.7				
16-	#r#	191 208	190 206	187 202	181 196	178 191	177 186	170 177	161 163	147 147			
	*B	298	282	265	239	228	208	186	163	146	126		
18	¥	164 179	161 176	161 176	159 173	155 169	151 165	148	143	134	124	111	98
U ent	⁺B	291	284	267	236	226	206	160 185	152 163	141	128 125	113 109	98 96
	*	145	142	138	136	135	133	131	128	125	120	110	98
20	*B	158 298	156 283	151 263	149 232	148 224	146 204	144 184	141 161	137 144	128 125	113 108	98 96
		126	126	124	120	116	115	115	114	112	111	107	97
22	** *B	137 300	138 284	136 266	132 226	128 220	127 202	127	126	123	121	111	97
	i ta	114	109	110	108	105	101	183 99	160 100	142 99	124 99	107 97	95 91
24	**	124	120	120	118	116	112	110	110	110	109	101	93
	*B	286 103	284 100	266 97	223 95	214 94	198 91	181 89	159 88	141 86	123 87	107	94
26	***	113	110	106	104	103	101	99	97	96	96	86 92	82 86
	*B	281 92	272	263	218	212	194	178	158	140	123	107	93
28	**	101	91 100	88 97	85 93	82 91	81 90	80 89	79 88	77 86	76 85	75 83	74 80
	*B	270	259	252	211	209	191	176	156	139	122	106	93
30	**	81 90	82 90	80 88	77 85	74 82	71 79	71 80	71 79	70	69	67	66
	*B	260	247	241	202	202	189	175	79 155	78 138	77 121	75 105	74 92
	*	75	72	72	70	68	65	62	63	62	62	61	60
32	† B	83 245	80 235	80 230	78 195	75 194	73 182	70 174	71 154	70 137	70 120	69 104	68 91
	12.4	68	66	64	63	61	59	57	55	55	55	55	54
34	** *B	76 231	74 224	71 219	70 190	69 190	67 177	64	63	62	63	62	62
		62	61	58	56	55	54	169 52	152 51	136 48,9	120 48,5	104 48,5	90 48,2
36	**	69	68	65	63	62	61	59	58	56	55	55	56
	*B	216 56	212 56	208 53	186: 51	185 48,8	173 48	164 46,8	/-148	133 44,5	119	103	90
38	**	63	62	60	57	55	55	54	53	51	43,6 50	42,3 48,9	42,3 49,4
783E.	*B	202	201	198	180	181	169	159	145	132	117	103	89
40	**	52 58	50 57	48,7 55	46,7 53	43,8 50	42,4 48,8	41,8 48,4	41,5 48,1	40,2 46,8	39,6 46	38,4 44,6	36,9 43,5
	*B	192	189	188	174	175	165	154	141	129	115	101	88
44	*	44 49,8	42,1 47,9	39,4 45,1	38,6 44,4	36,4 42,3	34,3 40,1	32,1	32,1	31,6	31,5	31,2	30,5
	•в	173	171	168	44,4 162	161	40,1	38,2 .145	38,3 135	37,8 125	37,6 111	36,8 98	36,3 85
	**	36,3	35,5	33,2	31,1	29	27,5	26,4	25,4	23,1	23,5	23,9	24,1
48	** *B	41,6 155	40,8 155	38,7 153	36,3 150	34,6 147	33 - 143	31,8 135	30,9 127	28,9 120	29,3 107	28,9 95	29,1
	J. #46	31,3	29	27,4	26	23,2	20,8	20,6	20,5	19	17,7	16,7	82 17,7
52	**	36,2	33,9	32,5	30,7	28,2 ·	25,9	25,4	25,3	24,1	22,9	21,1	22
	*B	142 26,4	139 24,8	139 21,8	137 21	134 19,1	131 16,6	126 14,9	119 15,7	114 14,9	103 14,2	93	.80
6	1 .## .	30,9	29,2	26,6	25,2	23,7	21,2	18,9	19,8	14,9	18,8	13,2 17,3	12,6 16,3
	*B	130	128	126	125	123	121	116	111	108 ′	97	88	77

		72 – 138 m SL2	36 m			150 t* 190 t**	250 \(\text{250}\) \(50 t					
m		//87 SL2]=	[E	Salania akeenbeer	0 t 2 – 138					
Á		. 72	78	, 84	90	96	102	108	114	120	126	132	138
60	** *B	22,2 26,3 118	20,6 24,5 118	18,6 22,9 116	16,4 20,1 113	15,1 19,1 112	13,5 17,5	12 15,8	11,4 14,9	10,8 14,6	10,7 14,7	10,1 13,9	9,7 13,1
64	***	19 22,5	17 20,4	15,3 19,1	13,8 17,3	11,5 15	111 10,4 13,7	108 9,2 12,7	103 8,8 12,1	7,7 11	91 7,2 10,6	6,9 10,5	74 6,7 10
68	*B **	107 16,1 19,2	107 14,6 17,7	107 12,3 15,5	105 11,3 14,5	9,3 12,5	102 7,6 10,5	6,4 9,6	96 6,2 9,4	95 5,5 8,5	5,3 7,9	7,2	72 6,8
72	*B	94 14,3 17,4	95 12,2 15	97 10,3 13,3	97 8,7 11,8	95 7 10	93 5,5 8,3	92 6,9	90 6,6	89 6	81	75 (70 33
	*B =	71	,` 84 10,4	84 8,4	89 7	88.33	86	85 %	83	82	5,7 76	5,5 71	67.
76,	** *B		13 73	11,1 72	9,8 82	7,5 81	6,2 80	79	77	76	71	67	64
80	* •			6,6 9,2 63	5,2 7,8 76	5,7 74	73	73	771	70	66	63	61
-84	* * B			5,6 8 47,1	6 68	68	68	67	66	65	62	58	58
88	* ** *B												
92	* *				54	63	63	61	61	60	57.	55	55
i ne	*B *					54	57	57	56	56	.53	5.51	51
96	*B					30;4	51	52	52	√51 ±	49,3	47,5	48,2
100	** *B						37,5	47,1	47,5	47,8	45,3	44	44,9
104	** 'B							41,2	43,2	44,4	41,9	40,4	41,6
108	** *B							. 19,4	37	41	38,5	37,3	38,3
112	** *B								22,6				
116	**								22,0	34,2	35	34,2	35,4
120	*B **									26,3	31,6	31,1	32,7
124	*B::									10,7.	28,2	28,1:	30
	*B										14,4	20,1	27,2
128	** *B										-M	16,5	17,6
132	** *B										VKTA	B 181257 / 181	15,9

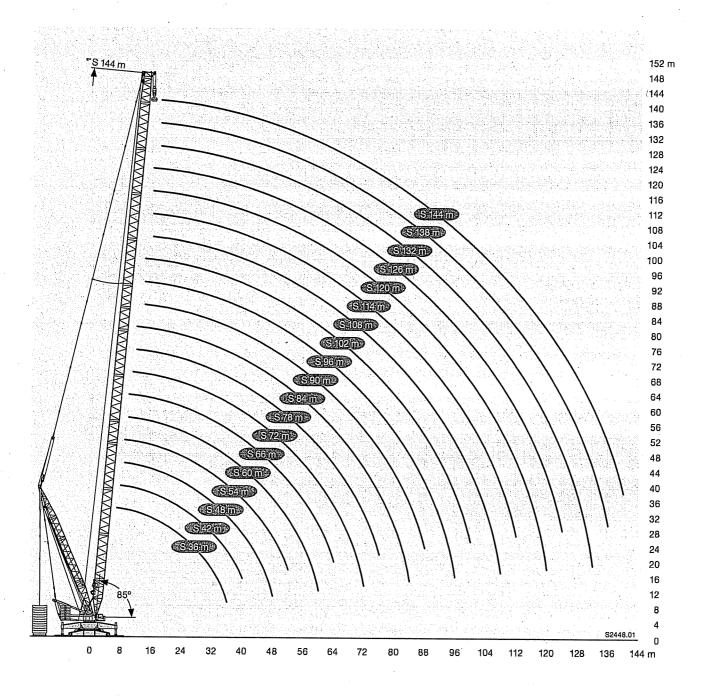


	24 – 96 m		00 t		i i i i i i i i i i i i i i i i i i i			The photograph pure of the processing	NESS INNESS AN BOOKENESS	o de la composição de l	T WATE #1110 THE COMPANY AND A	on the state of th		
	S 24	'S 30	S 36	 : S 42	S 48	S 54	S.60	S 66	S 72	S.78	S 84	l s 90	S 96	
Ø⊷ m			1000											
5,5	600												100410-03-03-03-0	5,5
6	575	575	Complemate a	Topic Commission	and the second									6
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7.450	502	497	496	489		SHIE								7
. 8	439	437	435	429	427	421					part of		a Grandani	. 8
9	385	386	383	380	375	374	369	- Transcription of the control of th	the second	and the second sections				9
10	346	343	338	337	336	327,	328	324	314					10:
11	311	305	306	-299	301	297	290	289	286	282		15/15/15 F.A.		
12	278	280	273	274	267	268	266	260	257	256	250	238		12
14	234	229	232	226	227	223	218	219	216	211	207	204	189	14
16	200	199	194	197	,192	190	188	184	181	182	178	174	169	416
18	172	171	171	168	169	165	161	161	158	154	153	151,	149	得 118年
20 22	153 136	152	150	149	146	146	142	137	138	137	133	129	129	20
24	130	135	134	132	130	127	127	124	119	120	118	115	112	22
26		121 109	120	117	117	113	112 :	111	108	105	103	102	J100 🚐	24
28	direction 2d	99	108 98	107 96	103	102	99	98	97	95	92	89	89	26
30		99		1334 5 5 mail	95	92	90	88	86	86	83	80	78	28
32 ()	igurios Partie	eraka 1042	89 82	87 80	86 78	83	82	80	76	77	75	73	71	30
34			75	73	· 1011年19月1日 東京 6011年19日本語	76	73	73	70 ∜	68	67	66	64	∃-\'\32
36		de tion.	1.0	67	72	70	67	65	64:	62	59	59 E	. 58	34
38				63	66 61	63	62 56	59	57	57	54	52	52	36
40		AT PARTH	77 : XS1777		56	58 54	51	55 50	51	52	50	47,5	46	38
44					48,5	45 - 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		47,5	46,5	45,5	43,5	41	40
48	CLASSIA SCALE				110,0	39	43,5 37	41	40	39	36	35,5	. 34	44
52						38	31,5	35,5	32,5	32,5	30,5	27,9	26,8	48
56		New Color	DESTRUCTION OF	an Valai	SECTION.		01,0	29,7 25	27,4	26,1	24,6	23,2	21	52
60	2012 - 120 A							20,9	22,4	22,2	19,1	18,6	17,3	56
64		tarrafiditāji,			44.1.221.04.24.			L. 20,5	18,5 15,8	18,3	16,2	14,2	13,6	60:
68									10,0	14,9	13,3	11,7	10,1	64
72	THEFT		21677-65420		HEALTH HE	TO WARRY	ara pesins			12,6	10,5	9,2	7,9	68
76											8,6 6,6	6,6	5,7	72 P
	gradige et al. Alegen.	- other hands of the	Al November 1988 of	an de servicio de la compansión de la comp	Lipetti respitato (FA)	120 ST 672 ST 665	Marchaella (A.C.)	3-4-FV8450-0535111 4-4-5-6-7-10-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	Para - 100 (A. 100)	Service Market	U,U	38.45.45.030	ASSESSED AND ADDRESS.	76



	36 – 1	44 m	30 – 36 m				150 t*	信	15	0 – 350 t 0 – 250 t 0 – 150 t					•				
	- [A] -	_S]=[_	% Ø D	_ 1		1 (102) 1 (107)		- E	SAC CENTRAL	0 t S 36 – 1	44	erverent r			31				
/8/←	36 492	42	48	54	60	66	72	78	84	1 90	96	102	108	114	120	126	132	138	:144
7 1	513																		
.8 **	454	433 455									2 3 4 5 5 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5				N. VI				
9	376	378 404	379 403	373 401	2 22										1500 E.A.				100000
10 **	330	338 363	332 350	331 350	329														
*B	600	600 300	358 595 301	359 557 293	355 502 294	443 295	290					-							
_11 ** 	600	324 590	324 571	319 538	317 498	318 439	314 387												
12 ** *B	205	271 293 569	270 291 547	268 291 520	264 285 487	264 285 438	264 286 386	262 283 341	254 271 301				Aglian Tagan						
14 **	226 244	225 243	225 244	221 238	221 240	221	219 236	216 234	214 232	212 230	208 225	202 215	13.543						
*B	519 191 207	522 194 210	506 188 205	483 189 205	460 187 204	424 184 200	374 186 202	338 186 202	300 181 197	177 193	176 192	210 173 185	170 176	160 162	146 147			· v	
*B 18 ••	458 166	477 166	466 166	452 161	434 161	408 162	374 ² 159	332 157	294 156	267 155	239 152	209 147	185 146	162 141	143 133	125 122	110	99	86
*B	180 411 145	180 433 145	181 430 145	174 420 143	176 408 140	176 387 139	173 362 140	172 329 139	171 292 134	170 265 133	166 236 133	161 206 130	158 184 128	150 161 125	139 143 121	127 125 116	112 109 106	96 98	86 83 86
20 ** *B	158 369	157 397	157 394	155 389	153 381	152 366	153 347	152 317	147 286	146 263	145 235	142 206	141 183	137 160	134 142	125 124	112 108	99 96	86 82
22 ** *B	129 140 333	129 140 365	127 138 361	125 136 359	125 137 354	123 135 344	121 133 331	122 134 305	120 132 281	117 129 254	114 124 232	112 124 205	112 124 182	111 122 160	108 120 142	106 117 124	101 110 107	97 99 95	86 86 82
24 **	115 126 301	113 123 335	114 124 334	110 120	110 121	110 121	108 119	106 117	105 116	104 115	102 112	98 109	97 107	96 107	96 107	94 105	91 99	89 92	82 83
26 **	103	103	101 110	99 109	327 96 106	98 108	98 108	293 97 107	92 102	252 91 101	91 100	88 98	181 87 97	159 84 93	141 83 93	123 82 92	107 80 88	95 79 84	74 77
*B	271 94 104	311 92 102	306 91 100	306 89	302 88	299 86	293 87	278 87	266 84	247 81	223 S	198 78	177 78	157 76	141 74	123 71	106 69	95 69	81 66
*B	242 85	287 83	284 83	98 282 79	97 281 79	94 277 79	96 274 76	97 263 78	93 253 76	90 240 74	88 219 71	87 196 68	87 176 69	85 155 68	83 138 66	80 121 64	78 105 61	76 94 60	70 81 58
30 ** *B	94 2 <u>19</u>	92 263	91 265	87 260 ::	88 261	87 260 ∂	85 255	87 249	85 241	82 230	80 213	76 194	77 175	76 154	75 137	73 121	69 105	68 93	64 80
32 ** *B	78 86 196	77 85 241	75 82 246	72 80 245	71 79 241	71 79 243	70 78 240	69 77 234	68 76 229	67 75 220	65 73 205	61 69 187	60 68 174	59 67 153	59 67 135	57 66 121	55 63 104	54 62 93	51 58 79
34 ** *B	72 79 172	70 77 219	68 75 229	66 74 229	64 72 226	64 71 226	63 71 226	63 70 222	60 68 217	60 67	59 66	56 63	55 62	52 59	51 59	51 58	48,2 56	47,6 55	44,7 52
36 **	67 74	64 71	63 70	59 67	59 66	57 64	57 64	57 64	55. 62	211 53 60	198 52 60	182 50 57	168 49,6 57	152 47,4 54	134 45,3 52	120 43,6 51	104 41,7 49,2	93 41,5 49	79 38,8 46,3
38 : **	147	198 60 66	215 57 64	213 54 61	214 54 60	211 53 59	211 51 58	210 52 59	206 49,9 57	201 47,3	46,2	176 44,4	163 44,4	148 42,6	131 40,9	120 38,8	103 35,2	92 35,4	79 32,9
*B		180 55	20:1 52	201 50	201 48,3	200 48,3	197 46,8	198 46,6	195 45,3	54 192 43,2	53 183 41,2	51 170 38,7	51 158 39,3	49,5 144 37,8	47,7 127 36,5	45,6 117 34,9	42,4 102 31,6	42,6 92 29,7	40,3 78 27
40 ** *B		61 166	59 186 45,4	57 .191 41,8	55 188 41	55 189 39,3	53 187	53 186	52 185	49,7 182	47,5 175	45,4 164	46 153	44,5 140	43,1 125	41,3 115	38,2 100	36,6 91	34,3 78
.44. ** *B			51 154	47,6 170	46,8 170	39,3 45,1 167	39,1 44,9 168	38,7 44,4 167	36,1 41,8 164	34,9 41 164	33,6 39,6 160	30,7 36,5 152	29,6 35,7 144	28,3 34,6 133	27,6 33,8 118	27,1 32,6 110	24,8 30,6 97	23,8 29,8 88	19,9 26,4 76
48 ** *B	a Y		39,8 45 125	36,1 41,4 145	34,2 39,5 153	33,4 38,7 152	31,5 36,8	32,1 37,4	30 35,3	27,4 33	26,1 31,8	24,2 29,2	24,1 29,4	21,6 27,2	18,9 24,6	19,2 24	17,9 23	17,9 23,1	14,9 20,6
52 **			=14U	31,1 36	29,2 34,1	27,7 32,6	150 26,6 31,4	151 25,7 30,5	149 24,1 29,1	146 22,6 27,5	145 20,3 25,4	140 17,7 21,9	134 18,6 23,2	124 17,1 21,8	113 15,1 20,1	106 13,4 17,6	94 11,1 15,3	85 11,9 16,3	75 10 14,7
* * * * * * * * * * * * * * * * * * *				122	134	138	137	135	135	134		128	124	116	107	101	91	82 181253 /	73

		36 – 14	4 m	30 – 36 m				150 t* 190 t**		250 150	0 – 350 t 0 – 250 t 0 – 150 t						-		•	
m		[<i>A</i> 7	<u> </u>	W PD					В	 ,	01) 36 – 1	44								
Á	<u> </u>	36	42	48	54	60 24,8	66 23,2	72 21,7	- 78 21,7	84° 18,6	90	96	102 13,6	108 13,1	114	120 11,2	126	132	138	144
56	** *B					29,3 115	27,6 123	26,1 125	25,9 125	23,2 122	22,1	21	17,4 118	16,9 115	108	15,7 101	13,8 95	8,1 11,6 87	7,4 10,9 79	5 8,8 71
60	** *B					22,4 26,6		17,8 21,8 113	17,7 21,3 114	15,7 19,7 112	17.1	12,9 16,6 109	10,4 14 108	10,2 13,8 106	8,6 11,7 101	7,4 11,3 95	6,5 10,1 89	5,3 8,2 82	5,4 7,9 75	6,2 68
64.	** *B					1.7	16,6 20,2 92	15,1 18,5 101	14,2	12,7	11,1	12,6	7.3	7,2 10,7		7,9	6,3			15 1 de 1
68	**						1/-92//	12,6 15,7	11,9 15	9,9 13	8,5 11,5	7,2 10,2	7,5	98 7,6	6,3	89 5,7	83	77	71	64
72	*B **							88 11,3 14,3	94 9,6 12,7	94 7,9 11	93 5,9 8,8		90 5,4	89 5,2	87	83	78	72	67	61
76	*B-							69	85 8 10,7	85 5,9	.85	85 5,4		82	80	77	73	67	63	57
HIGHT.	*B								77	8,9 77 7	78	77	77	76	73	7.1	68	63	:59	53
80	**: *B									7 -67	5,1 71	72	70	70	-68	66	63	58	55	50
84	** *B								Service Service	6,1 52	63	66	64	64	63	61	58	54	51.7	46,6
88	** *B									1	52	60.	59	59	57	56	54	49,9	47,5	43,2
92	** *B											51	54	<i>5</i> 4	52	52	49,6	46,2	44	39,9
96	* ** *B						ő.					37.9	i veri		attati Sistema		45,4		40,7	
100	*	1.4	153.942 133.14				ly i	7.2.7				51,5					433.49			36,8
104	*B												-38	44;3	44	43,2	41,3	38,8	37,4	33,8
108	*B *													37,4	39,9	39,3	37,8	35,1	34	30,8
	*B * **													26,1	34,4	35,5	34,2	31,9	30,7	27,9
112	*B											100 PM	2.5		25,8	30,8	30,7	28,7	27,8	24,9
116	** *B															25,4	27	25,6	24,9	22,4
120	** *B	7. 1														16,6	22,7	22,4	22,1	20,1
124-	* *B								100 A								15.6	19.4	19.3	217,8°
128	** *B									i i										15,6
132	* *								1-27 -52.1											
136	*B * **							44,741%)										9,1	14,1	13,3
140	*B																		7,8	11,3
	*B											and Sal				da Const	VKTAB	181251 /	181253 /	7,9 181220



Anmerkungen zu den Traglastfabellen

- 1. Die Traglasttabellen entsprechen der EN 13000.
- 2. Die Traglasten sind in Tonnen angegeben.
- 3. Das Gewicht des Lasthakens bzw. der Hakenflasche sowie der Anschlagmittel ist von den Traglasten abzuziehen.
- 4. Die Ausladungen sind von Mitte Drehkranz gemessen.
- Abhängig von der Auslegerlänge ist der Kranbetrieb zulässig bis zu einer Windgeschwindigkeit von 9,0 m/s bzw. 12,8 m/s (Staudruck 100 N/m²). Die genauen Angaben sind der Bedienungsanleitung zu entnehmen.
- 6. Die Aufstandsfläche muß eben und tragfähig sein.
- 7. Traglaständerungen vorbehalten.
- Der Kran kann mit den in den Traglasttabellen angegebenen Lasten verfahren. Die Betriebsbedingungen sind der Bedienungsanleitung zu entnehmen.

Remarks referring to load charts

- 1. The load charts are in accordance with EN 13000.
- 2. Lifting capacities are given in metric tons.
- 3. The weight of the load hook and hook blocks as well as of the lifting tackle must be deducted from the lifting capacities.
- 4. The working radii are measured from the slewing centreline.
- Depending on the boom length the crane operation is permissible up to a wind speed of 9.0 m/s respectively 12.8 m/s (impact pressure 100 N/m²). The exact values can be taken from the operation manual.
- 6. The subsoil must be even and of good bearing capacity.
- 7. Subject to modification of lifting capacities.
- 8. The crane can be displaced with suspended loads as stated in the load charts. Operating conditions must conform to the rules in the operating instructions.

Remarques relatives aux tableaux des charges

- 1. Les tableaux de charge sont conformes à EN 13000.
- 2. Les charges sont indiquées en tonnes.
- 3. Les poids du crochet ou du moufle ainsi que des élingues sont à déduire des charges indiquées.
- 4. Les portées sont prises à partir de l'axe de rotation de la partie tournante.
- 5. En fonction de la longueur de la flèche, le fonctionnement de la grue est autorisé pour une vitesse de vent de 9,0 m/s resp. 12,8 m/s (pression dynamique 100 N/m²). Les données exactes sont contenues dans le manuel d'utilisation.
- 6. Le sol doit être plat et résistant.
- 7. Charges données sous réserve de modification.
- 8. La grue peut être déplacée avec les charges indiquées dans les tableaux des charges. Les conditions de service sont stipulées dans les instructions de service.

Note alle tabelle di portata

- 1. Le tabelle di portata sono conformi EN 13000.
- 2. Le portate sono indicate in tonnellate.
- 3. Il peso del gancio del bozzello nonché di ulteriori accessori vanno sottratti dalle portate.
- 4. Gli sbracci sono misurati dal centro della ralla.
- 5. L'utilizzo della gru è autorizzato con forza del vento da 9,0 m/s a 12,8 m/s (pressione dinamica 100 N/m²), dipendentemente dalla lunghezza del braccio. Le istruzioni esatte si possono trovare nel manuali d'uso.
- 6. La superficie adibita al montaggio deve essere piana e in grado di sopportare il carico.
- 7. Con riserva di modifiche di portata.
- 8. La gru si può movimentare con carichi indicati nelle tabelle. Ulteriori condizioni di utilizzo vengono riportate nel manuale d'uso della gru.

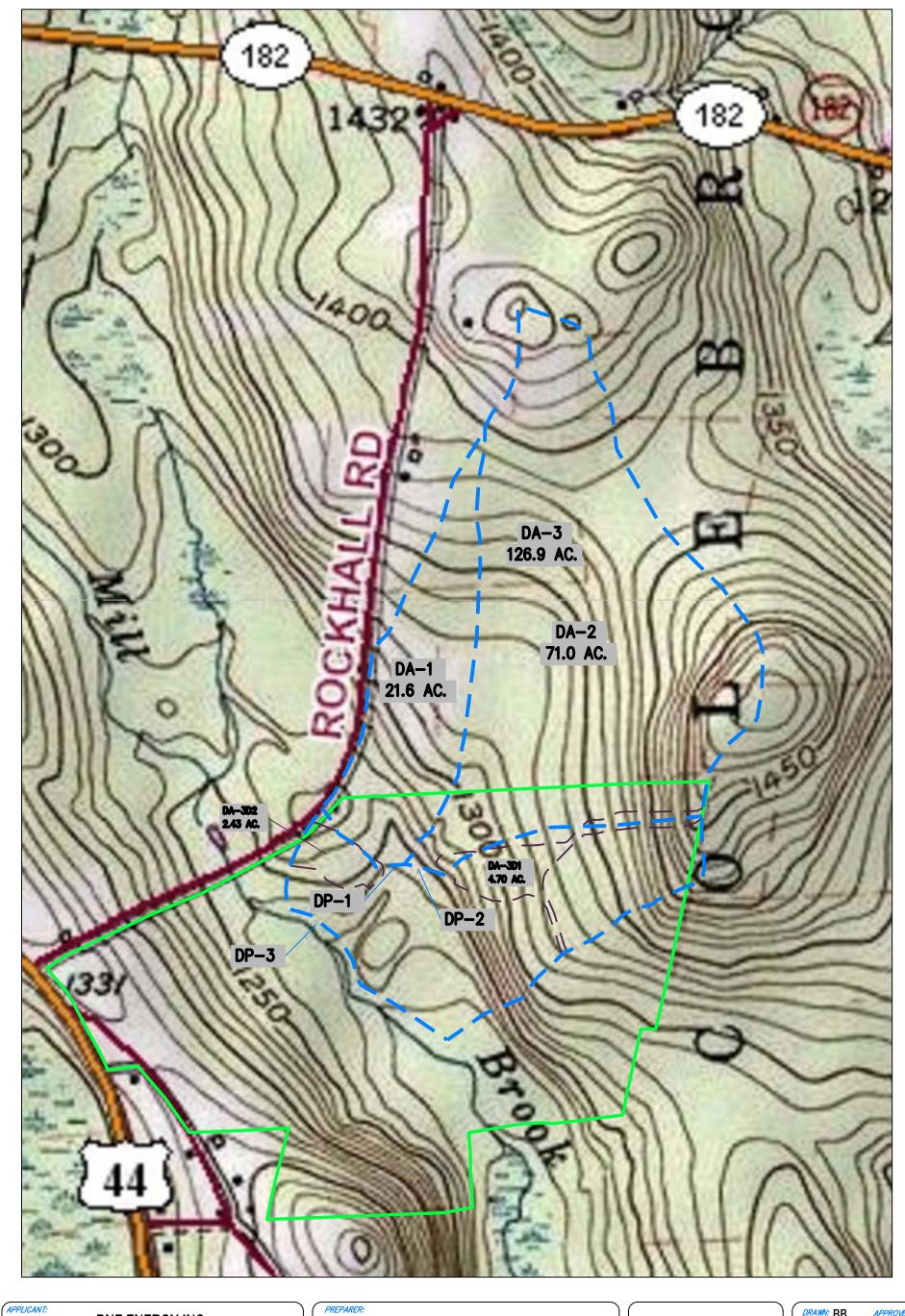
Observaciones con respecto a las tablas de carga

- 1. Las tablas de carga conformes a la normativa EN 13000.
- 2. Las capacidades de carga se indican en toneladas.
- 3. El peso del gancho de carga o de la pasteca, así como de los accesorios de eslingado, se ha de restar de las capacidades de carga.
- 4. Los radios de trabajo se han medido desde el centro de la corona de giro.
- Se admiten fuerzas de viento de 9,0 m/s ó 12,8 m/s en el servicio de grúa dependiendo de la longitud de la pluma (presión de apoyo 100/N/m²). La información exacta debe ser extraída del manual de instrucciones.
- 6. La superficie de apoyo ha de ser llana y firme.
- 7. Las capacidades de carga están sujetas a modificaciones.
- La grúa puede desplazarse con las cargas indicadas en las tablas de carga. Las condiciones de servicio se indican en las instrucciones de servicio.

Примечания к таблицам грузоподъемности

- 1. Таблицы грузоподъемности соответствуют EN 13000.
- 2. Грузоподъемности указаны в тоннах.
- 3. Вес грузового крюка или крюковой подвески, а такжке строповочных средств должен быть вычтен из значения грузоподъемности.
- 4. Вылет измеряется от середины опорно-поворотного круга.
- В зависимости от длины стрелы работа крана разрешена до скорости ветра 9,0 12,8 м/с (ветровое давление 100 Н/м²). Точные данные следует взять в руководстве по обслуживанию.
- 6. Изменения значений грузоподъемности возможны.
- 7. Возможно изменения значений грузоподъемности.
- Кран может перемещаться с грузами, приведенными в таблицах грузоподъемности. Условия такого режима в соответствии с руководством по эксплуатации.

EXHIBIT 3



APPLICANT:

BNE ENERGY INC. 29 SOUTH MAIN STREET WEST HARTFORD, CT 06107

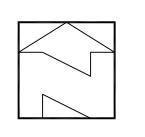
DRAINAGE AREA MAP

WIND COLEBROOK NORTH WINSTED-NORFOLK ROAD

COLEBROOK



CORNERSTONE PROFESSIONAL PARK, SUITE D-101 43 SHERMAN HILL ROAD CONNECTICUT WOODBURY (203) 266 - 0778 CONNECTICUT



DRAWN: BB	APPROVED: CJ
SCALE: 1"	= 500'
DATE:	11 MAR 11
PROJ. NO.:	3093

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