Exhibit K—Project Selection and Data Export/Import Instructions (NOFA #007)

Section 1 - Introduction

Please read the following instructions on how to complete your Broadband Grants Application. The Application requires the use of data available through the Iowa Broadband Availability Map v4, available at: https://ocio.iowa.gov/broadband-availability-map-version-4 or https://arcg.is/1a9Gfv0. Applicants must acquire the appropriate underlying data related to their Project following these instructions.

First, you will need to select the Eligible Blocks forming the basis of your Project. This is described in the section <u>Determine Project Blocks Using the Eligible Areas Selection Tool</u> on page 2.

Second, you will need to Export the Infrastructure Project area data from the blocks you selected. See Export <u>Project Data on page 3</u>.

Third, you will need to copy the underlying data into the **ESA Input** tab within the **Broadband Grants Core Application**, which will in turn populate, in part, the **Broadband Grants Core Application Worksheet**, **Exhibit B**. See <u>Copying Infrastructure Project Data to Broadband Grants Core Application</u> on page 3. You can select the Census Block(s) forming the basis of your Project using the Eligible Area Selection Tool available on the Iowa Broadband Availability Map v4 (published at https://arcq.is/1a9Gfv0). Zoom into your

project area or area of interest so that the Census Blocks comprising your Project are visible, usually about the scale of a county or two. <u>Reminder: For this Notice</u> <u>of Funding Availability, only identified Eligible Service Areas are eligible for</u> <u>funding.</u>

- 1. The Broadband Availability Map includes the following layers, for which you can use the Layer List to toggle the visibility of the layers on and off:
 - a. Iowa County Boundaries
 - b. NOFA007 Eligible Service Areas blocks eligible under NOFA #007
 - c. IA Broadband Previous Incentive Blocks blocks that have received an award under a previous grant issued by OCIO that would be disqualifying under NOFA #007
 - Iowa Broadband V4 (Overview) Iowa Broadband Version 4 consolidated tiers to allow the map to draw faster at statewide scales
 - e. Iowa Broadband Blocks v4 (July 2021) detailed block information
- Turn on the NOFA007 Eligible Service Areas layer click on the Layer List button is to display the list of layers available. Check the box next to the NOFA007 Eligible Service Area layer to draw blocks eligible under NOFA #007. To increase the visibility of the eligible areas, <u>uncheck</u> the lowa Broadband v4 (overview) and lowa Broadband Blocks v4 (July 2021) layers.
- 3. On the menu bar of the Iowa Broadband Map Version 4, click the Eligible Area Selection Tool.
- 4. After the Eligible Area Selection Tool opens, <u>make sure the</u> <u>NOFA007 Eligible Service Areas layer is checked</u>, as in the image to the right. If you are not zoomed in far enough the NOFA007 Eligible Service Areas layer will appear greyed out. If the layer is greyed out click the + tool on map navigation tools on the left-side of the map to zoom in a little further. This layer allows you to visualize blocks that are eligible under NOFA #007.



🖸 ବ 🗄 📚 👪	, 63	T
Layer List	*	×
Layers	Q	P
🕨 🗹 Iowa County Boundaries		•••
NOFA007 Eligible Service Areas		•••
IA Broadband Previous Incentive Blocks		•••
Iowa Broadband V4 (Overview)		
Iowa Broadband Blocks v4 (July 2021)		
 Maria Tennamahir Man 		

- 5. Selection Mode. Choose a selection mode to select all the blocks that cover the extent of your Project area. The drop-down menu will provide 5 selection tools. The Select By Point or Select By Polygon options work best for selecting large areas. Try each tool in a small area to get an idea of how they work.
 - a. Select By Point A single block can be selected at a time. Use Shift + Mouse click after your first block is selected to add to the collection of blocks. Your screen may re-center to include all selected blocks. You can also click the ellipsis icon (...) then select Zoom To to cause the map to recenter to show all of



the selected blocks. A block can be removed by clicking CTRL + Click (# + Click on OSX).

- b. Select By Rectangle Draw a box around the blocks that should be selected in your Project area. Shift + Click to add additional areas, and CTRL + Click (# + Click on OSX) to remove areas.
- c. Select By Polygon This selects all blocks that are within or touch the polygon drawn on the map. Start drawing a polygon by clicking on the first block in your Project area, click near but within your Project area boundaries until the polygon contains your Project area. Double-click to complete the selection of all blocks that are within or touch that polygon. Your project area polygon doesn't need to be exact since you are only selecting Census blocks that will be served in the project area.
- d. Select By Line Draw a straight or irregular line by placing your first mouse click inside an eligible block that is part of your Project area, click to include another block, double-click to start the selection process. Shift + Click to add additional areas, and CTRL + Click (# + Click on OSX) to remove areas.
- e. Select by Circle Click on a location on the map. Continue to hold down the mouse button while dragging the mouse to create a circle. This tool might be useful for selecting eligible areas (blocks) that involve the placement of towers. Shift + Click to add additional areas, and CTRL + Click (# + Click on OSX) to remove areas.
- 6. Next, follow the instructions in the Export Project Data section of this document (below).

Section 3 - Export Project Data

Regardless of which selection option you used to select your Project area above, you will now export he underlying census block data. To do this:

Export Selected Blocks to a CSV file:

- In the Eligible Area Selection Tool, click the Selection Actions icon (...) to display Export options. See image to the right.
- 2. Choose **Export to CSV file** to export the selected Census Block IDs and corresponding data forming the basis of your Project.
- 3. Save your file using this naming convention: *features.csv*.
- 4. Click the in the top right corner of the tool menu to close the **Eligible Area Selection Tool**.

Section 4 - Copying Project Data to the Broadband Grants Core Application

- 1. Open the Broadband Grants Core Application worksheet. Complete the following sections:
 - a. On the Menu Tab, the bottom section features a checklist of items required for the application to be complete. If incomplete, the Status column describes the action that must be addressed. As you work through the Application, the Status will change to "Complete."
 - b. Applicant Name Use the Business Organization indicated in your lowa Grants Application.
 - c. Study Area Code and Exchange Name If applicable, indicate your FCC SAC and Exchange Name.
 - d. Facilitated Speeds Choose your project type, either 100/20 or 100/100.

ĵ Q ⊟	♦ 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Eligible Area Sele	ection Tool 🛛 😞 🗙
ල්ට් Select	: 👻 🕼 Clear
Layer	⇒
NOFA007 Eligib	le Service Areas 11
	Selection actions $\qquad imes$
	୍ତି Zoom to
	📲 Pan to
	🔆 Flash 🗸
<	[→ Export to CSV file

General Application	Information	Facilita	ted Broadband Speeds - Select Only One From Below							
Applicant Name:	Required	Facilita	ted Speeds: Required							
Study Area Code:										
Exchange Name:										
	Follow The	Steps Below								
	Instructions		Hot Buttons							
1) Populate the Eligi	ible Service Area data. Detailed directions in Exhibit	L.	Go to Eligible Service Area/Project Input Tab							
1a) Populate your e	xported Eligible Service Area data on the ESA Input ta	ib.	00 to 2.1.8.2.12 Set file 1 12.2, 1 13 Jett input 12.2							
2) Refresh Exhibit B	- Project Worksheet with the Eligible Service Area da	ata.	Refresh Exhibit B with ESA Input Tab Data							
2a) The "Hot Button	" to the right will transfer your ESA Input data to Exhi	bit B.	Refresh Exhibit 6 with ESA liput Tab Data							
3) Populate data in I	Exhibit B - Project Worksheet.									
3a) Check only one I	Delivery Platform that applies.		Go to Exhibit B – Project Worksheet Tab							
2h) Salact the appre	priate Infractructure Tune to be dealeyed]							

3h) Salact the annropriate Infrastructure Type to be deployed

- To copy the underlying data into the ESA Input tab, which will in turn populate the Project Worksheet, in Exhibit B:
 - a. Open the .csv file for your Project you generated through the Eligible Area Selection Tool ("features.csv."). **DO NOT alter the contents of any fields or change the formatting of cells.**

b. Select/highlight all the data (<u>excluding the column headers</u>) beneath **"OBJECTID"** (Column A) through and including the column labeled **"y"** (Column AF).

	A		В	с	D	Е	F	G	н	1	J.	к	L	м		N	0	Р	Q	R	S	т	U	v	w	x	Y	z	AA	AB	AC	AD
1	OBJE	CTID	cioblock	d blockid	areasqmil	househo	lcpopulati	orbusine	sse: schools	effectived	county	tsa	tsatier	partial	se ti	er1	tier2	tier3	tier4	previous	PTE	NOFA001	NOFA002	NOFA003	NOFA004	NOFA005	longitude	latitude	aland	awater	Shape_A	Shape_L
2	190	0448 1	9183-96	C 1.92E+14	0.48		1	2	0	0 20210701	Washingt	yes		3					1	no							-91.547	41.32985	1224433	41808	0.000136	0.047325
3	190	0475 1	9183-96	C 1.92E+14	0.61	1	2 3	0	2	0 20210701	Washingt	yes		3					1	no							-91.531	41.32734	1590017	0	0.000171	0.058899
4	190	0476 1	9183-96	iC 1.92E+14	0.98		5 1	1	0	0 20210701	Washingt	cyes		3					1	no							-91.5703	41.33002	2557215	0	0.000275	0.067306
5	190	0991 1	9183-96	iC 1.92E+14	1.57		7 1	.8	5	0 20210701	Washingt	yes		3					1	no							-91.6598	41.33072	4083565	0	0.000439	0.168397

- c. Right-click to open the dialogue box. Click "Copy" to copy this data or use CTRL+C to copy.
- d. After pasting the data into the ESA Input tab, go back to the Menu Tab.
- e. On the Menu Tab, click on the Hot Button "Go to Eligible Service Area/Project Input Tab."
- f. The ESA Input Tab will open. Click on the first available row in Column A ("OBJECTID").

Paste Your	Eligible Service Area Da	ta Below in Ro	w 3	DO NOT EDI	T DATA FROM	MAP EXPORT																				Return To Me	anu	
OBJECTID	ocioblockid	blockid	areasqmiles	households po	pulation bu	sinesses scho	ols eff	ectivedate county	tsa	tsatier	tier1 t	ier2	tier3	tier4 previous_incentive	NOFA001	NOFA002	NOFA003	NOFA004	NOFA005	OFA006	ligible_	longitude	latitude	aland	awate	r Shape_Area Sh	nape_Lengt	th x y
3550	19011-9602002064	1.9012E+14	0.99	3	5	0	0	20210701 Benton	Yes	1	100	0	0	0)	es	-92.07609952	42.13037563	2569253	(C	0 0.000279756	0.06792434	44
3561	19011-9604002007	1.9012E+14	0.000768425	0	0	0	0	20210701 Benton	Yes	1	100	0	0	0)	es	-92.06627651	42.12500398	1992	. c	D 2.17E-07	0.00185451	14
3576	19011-9603004087	1.9012E+14	0.15	1	3	0	0	20210701 Benton	Yes	1	100	0	0	0)	es	-91.99797867	42.15588629	408043	(C	0 4.42617E-05	0.03043049	95
3577	19011-9602002119	1.9012E+14	0.2	0	0	0	0	20210701 Benton	Yes	1	100	0	0	0)	es	-92.07273797	42.11055103	524750	((0 5.71204E-05	0.03943965	56
3583	19011-9602002002	1.9012E+14	2.8	13	24	1	0	20210701 Benton	Yes	1	95.8	1.53	1.37	1.25)	es	-92.09625262	42.17326966	7260649	0	0.000791112	0.14554431	11

- g. Right-click on cell A3 to open the dialogue box. Select **"Paste"** from the pop-up menu to paste the data to the sheet.
- h. Duplicate blocks if you have duplicate blocks in the ESA Input Tab, you will see a yellow message bar at the top of the tab. If you do not see a yellow bar proceed to the next step. To remove the yellow message bar, you must remove any duplicate blocks. To do this, select the

cells for the duplicate record and click the delete key. The message will disappear when there are no duplicate blocks.

J	K	L	М	N	0	Р	Q	R	S	т	U	v	w	
PLEA	ASE REM	OVE DUPLIC	ATE CE	INSUS	BLOCI	KS FRO	OM ESA INPUT DATA -	- FAR RIGH	T COLUMN	SHOWS D	UPLICATES	(COLUMN	AI)	
county	tsa	tsatier	tier1	tier2	tier3	tier4	previous_incentive	NOFA001	NOFA002	NOFA003	NOFA004	NOFA005	NOFA006	eli
			400	-										

- i. Return to the Menu Tab and click on the Hot Button "Refresh Exhibit B with ESA Input Tab Data"
- J. If you are not redirected to the Exhibit B tab automatically, click on the Hot Button "Go to Exhibit B Project WorksheetTab." Please note the message at the top of the worksheet. The message PLEASE REVIEW EXHIBIT FOR INCOMPLETE ITEMS will appear at the top of all tabs that have incomplete information.
- k. Any Eligible Service Area Blocks you selected on the map will be displayed in Exhibit B if they are designated as Eligible Service Areas. The following Columns should contain your project data:
 - i. Census Block #
 - ii. Eligible
 - iii. Previously Funded
 - iv. County
 - v. Sq. Miles
 - vi. **Total Number of Broadband Units in Project Area** (HSBs = Homes, Schools, and Businesses)
 - vii. Total Number of Broadband Units New Service Will Be Facilitated To

NOTE: The Project Worksheet will assume you intend to service 100% of the HSBs in every Census Block once the project is complete. If you intend to serve a different number of HSBs in any or all Census Blocks, you must make the appropriate corrections to HSB counts in this section. For example, in the below screenshot, the households cell has been adjusted to 0 households, to reflect that the Project does not intend to serve any of the households in that particular Census Block.See Screenshot, Area A.

viii. Facilitated Speeds in Project Area Upon Completion (Screenshot, Area B)

Use the drop-down menu to select the new download and upload speeds available upon completion of the project.

- I. In addition, follow the instructions at the top of **Exhibit B** and complete the following:
 - i. Check the delivery platform that applies to the Project under the **"Delivery Platform"** section. (Screenshot, Area C)

- ii. In the **"Prospective Products Attributes"** section complete as applicable. Applicants must respond to each of the elements (Availability, Latency, Performance Credits, and Data Cap). (Screenshot, Area D)
- iii. The area labeled "Application Calculations" (Screenshot, Area E) will automatically be calculated using the information provided in Exhibits B, C, D and D.1, if applicable. The Efficiency calculation (Cost per Passing) will remain blank until budget information is entered on Exhibits D and D.1.

Delivery Platform:	(Check or Populate Other)
Servery Placionin	
- FTTH	Check
- DSL	Check
- Cable Modem	Check
- Wireless Spectrum *	Check
- Fixed Wireless *	Check
- Other	

Q	Application Calculations	
	Total Broadband Units Facilitated Service To	17.0
	Rurality (Units Facilitated Per Square Mile)	4.1
	Completeness	94.00%
	Efficiency (Cost per Passing)	\$ 220.59

D	rospective Product Attr	ibutes: (Popula	te Responses)
-	Availability	100.00%	percent
-	Latency	1	milliseconds
-	Performance Credits	Yes	✓ No
-	Data Cap	Yes	✔ No

* If this delivery platform is selected, Applicants must provide a completed Exhibit I.

													Facilitated Spe	eds in Project
					Total N	umber of	Broadba	nd Units	Total Nu	umber of	Broadba	nd Units	Area Upo	n Project
	Eligible Service Area								New Ser	vice Will	l Be Facil	Comp	letion	
Census Block #	Eligible	Previously Funded	County	Sq. Miles	н	S	В	Total	н	S	В	Total	Down (Mbps)	Up (Mbps)
5			1	4.1408	17	0	1	18	16	0	1	17	500	25
19011-9602002064	YES		Benton	0.9900	3	0	0	3	3	0	0	3	500	25
19011-9604002007	YES		Benton	0.0008	0	0	0	0 0	-0	0	0	0	500	25
19011-9603004087	YES		Benton	0.1500	1	0	0	1	0	0	0	0	500	25
19011-9602002119	YES		Benton	0.2000	U	0	0	0	0	0	0	0	500	25
19011-9602002002	YES		Benton	2.8000	13	0	1	14	13	0	1	14	500	25
			END OF DA	TA										

Once finished, refer to the Checklist at the bottom of the **Menu** Tab to verify whether any other sections of the Broadband Grants Core Application are incomplete.

If you have questions about how to complete this process, contact <u>ociogrants@iowa.gov</u> for further information.