1	DEPARTMENT CIRCULAR NO.DC2016-3
2	PRESCRIBING THE OPTIMAL UTILIZATION OF AGUS HYDRO ELECTRIC
3 4	GENERATING PLANTS IN MINDANAO
5	
	WHEREAS, pursuant to the declared policy of the State under Republic Act No. 9136,
	otherwise known as the Electric Power Industry Reform Act of 2001 (EPIRA), the
	Department of Energy (DOE) is mandated to ensure the quality, reliability, security,
9 á	and affordability of the supply of electric power and establish and administer
10 j	programs for, among others, utilization of energy resources in the Philippines;
11	
	WHEREAS, the DOE is mandated to formulate and implement programs, including
	a system of providing incentives and penalties, for the judicious and efficient use of
	energy in all energy-consuming sector of the economy;
15	
	WHEREAS, Section 6 of the EPIRA provides that the generation of electric power is a
	business affected with public interest and shall be competitive and open;
18 19 \	WHEREAS, upon the issuance of the DOE of Department Circular No. 2010-03-0003,
	"Directing All Generation Companies, the Transmission Service Provider, and All
	Distribution Utilities to Ensure Adequate and Reliable Electric Power Supply in the
	Country", power situation in Mindanao has improved due to the entry of large base
	load plants and various initiatives such the DOE-NEA Modular Gensets Program,
	electric cooperatives-initiated embedded gensets, Interruptible Load Program and
	aggressive energy efficiency and conservation programs;
26	
27	WHEREAS, the Mindanao Power Summit organized by the Mindanao Development
28	Authority (MinDA) and attended by the different stakeholders in Mindanao,
	including the business sector, consumer groups, academe, and energy agencies was
	held at the Grand Ballroom, Waterfront Insular Hotel in Davao City on 13 April 2012
	to present their proposal/proposed measures to address the impending power
	supply shortage in Mindanao ;
33	
	WHEREAS, the Mindanao grid continued to experience tight power supply situation
	and even rotating brownouts in some areas, particularly during times of low hydro
-	production from Agus, scheduled maintenance of power plants and occurrences of forced outages of power plants and transmission lines;
38	forcea outages of power plants and transmission mes,

1	WHEREAS, the Philippine Atmospheric Geophysical Astronomical Services
2	Administration (PAG-ASA) maintains a nationwide network, pertaining to
3	observation and forecasting of weather and flood and other climatological Conditions
4	affecting the national safety, welfare and economy;
5	
6	WHEREAS, there is a need to optimize the utilization of hydro, considering it is the
7	cheapest source of power;
8	
9	WHEREAS, the utilization of Lake Lanao includes riparian flows for the surrounding
10	communities;
11	
12	WHEREAS, portion of the available capacity of Agus Hydroelectric Power Plants
13	(HEPPs) serves as regulating and contingency reserve to the Mindanao Grid;
14	MULTEREAS there is a need to entimize the dispetch of the hydrogener elector
15 16	WHEREAS, there is a need to optimize the dispatch of the hydropower plants;
16 17	NOW, THEREFORE, premises considered, the DOE hereby declares the following in
18	support of ensuring supply security through optimal utilization of all power
19	generating facilities in Mindanao Grid:
20	generating memore in minimum of the
21	Section 1. Scope and Application. This Circular shall apply to all agencies and
22	entities named herein and to all electric power industry participants in Mindanao.
23	
24	Section 2. Policy on Revised Dispatch Order. The usage of hydro resources in
25	Mindanao Grid particularly Agus HEPPs shall be optimized to ensure their efficient,
26	effective and sustainable operations. As such, Power Sector Assets and Liabilities
27	Management Corporation (PSALM) and National Power Corporation (NPC) shall
28	optimize Agus Plant capacity for dispatch in such manner that the minimum
29	operating level of 699.15 Meters Above Sea Level (MASL) will not be reached during
30	the peak summer months in conjunction with all the available power plants of the
31	grid.
32	
33	To this effect the provisions of this section shall be considered in the existing and
34	prospective dispatch protocols.
35	
36	Section 3. Responsibilities of the Energy Agencies. Pursuant to their respective
37	mandates and functions under the EPIRA and its Implementing Rules and
38	Regulations, Philippine Grid Code (PGC) and other relevant laws, rules and

issuances, the following are mandated to extend their full cooperation and action, toensure the objectives of this Circular:

3

(a) National Grid Corporation of the Philippines (NGCP)-System Operator 4 **(SO).** The NGCP, as the Concessionaire of the national transmission facilities, 5 6 for and in the interest of the general welfare of the public, is hereby directed to perform its obligations of ensuring and maintaining the reliability, adequacy, 7 security, stability and integrity of the nationwide electricity grid in accordance 8 9 with the performance standards for the operations and maintenance of the grid, as set forth in the PGC including the procurement of Ancillary Services to 10 cover adequately the reserve requirements of the grid. In the performance of 11 its obligations, NGCP is hereby directed to optimize the use of all available 12 capacity based on the Revised Nomination and Dispatch Protocol to maintain 13 14 load-generation balance and the required reserves. 15 The NGCP shall comply with the directives set out in this Circular and shall 16 implement the Revised Nomination and Dispatch Protocol, pursuant to Section 17 4 of this Circular. 18 19 (b) Power Sector Assets and Liabilities Management Corporation (PSALM) and 20 National Power Corporation (NPC). To ensure the effective implementation 21 of this Circular, PSALM and NPC through its Mindanao Generation (NPC-22 MinGen) shall: 23 24 Prepare and submit to NGCP, nomination of all its available capacities in (i) 25 Mindanao Grid so as not to breach the minimum operating level of Lake 26 Lanao at 699.15 MASL with due consideration to all available units. To 27 avoid breaching the minimum operating level of Lake Lanao, MinGen to 28 29 start drought watch (water conservation) when lake elevation intersects the Seasonal Draw Down Limit (SDDL), which is defined as the Highest Actual 30 Elevation of the previous year minus 1.50 meters but should not be lower 31 than the Minimum Allowable Level equivalent to 698.15 MASL. The yearly 32 SDDL shall be submitted to the DOE and NGCP SO for the dissemination 33 to all stakeholders. 34 35

1 2		MinGen to start flood watch (water release) when the Lake Elevation is critically near the Upper Rule Curve.
3 4 5 6 7	(ii)	Undertake coordination and information campaign for all its customers on the Revised Nomination and Dispatch Protocol to enable the said customers to adjust and prepare the necessary measures to be adopted.
8 9 10 11	(iii)	Coordinate with NGCP SO and the National Electrification Administration (NEA) in the implementation of this Circular, including among others, dissemination of information.
12 13 14 15 16	(iv)	NPC-MinGen shall prepare the annual Lake Lanao Operating Rule Curves (Upper and Lower) not later than 15 <sup>th</sup> of January of each year to serve as basis of Section 3.b(i) and use it as the guide for the optimal reservoir operations of Lake Lanao and shall submit same to DOE and NGCP.
17 18 19 20 21 22	obligatio Cooperat	<b>onal Electrification Administration (NEA).</b> Consistent with its statutory ns, NEA is mandated to provide all necessary assistance to Electric tives (ECs) to advise and inform all electricity end-users of the provisions of cular, including among others, the Revised Nomination and Dispatch
23 24 25	hereby n	<b>tic Power Industry Participants.</b> All electric power industry participants are nandated to provide full cooperation and to take all appropriate action and to ensure that the objectives set out in this Circular are attained.
26 27 28 29 30 31 32	NPC-Min utilities accordan	<b>4. Revised Nomination and Dispatch Protocol.</b> The NGCP, PSALM and nGen, in coordination with all Mindanao power generators and distribution (DUs), shall develop the Revised Nomination and Dispatch Protocol in ce to Section 2 of this Circular. This Protocol shall be submitted to the DOE fteen (15) working days from the effectivity of this Circular, for approval.
32 33 34 35 36	the electr	<b>5. Lead Agency.</b> The DOE, being the agency tasked to supervise and oversee ric power industry, shall be the lead agency in ensuring that the objectives of alar are properly carried out.
36 37 38		<b>6. Monitoring, Enforcement and Compliance.</b> The DOE, through EPIMB, assistance of DOE Mindanao Field Office shall monitor the compliance of

1 2	PSALM, NPC-MinGen, NGCP, all generation companies including embedded generation and all Distribution Utilities (DUs) to this Circular.
3	
4	Section 7. Regulatory Support. The ERC shall ensure the timely recovery of possible
5	adjustments of electricity rates of Generators and DUs.
6	
7	Section 8. Repealing Clause. Nothing in this Circular shall be construed as to amend,
8	supersede, or repeal any of the mechanism or institutions already existing or
9	responsibilities already allocated and provided for under any existing law, rule, or
10	contract.
11	
12	Section 9. Separability Clause. If for any reason, any section or provision of this
13	Circular is declared unconstitutional or invalid, the other parts or provisions hereof
14	which are not affected thereby shall continue to be in full force and effect.
15	
16	Section 10. Effectivity. This Circular shall take effect immediately fifteen (15) days
17	from its publication in a newspaper of general circulation.
18	nom ne paeneauor nea newspaper of general en catalors.
19	Signed this day of 2016 at the DOE, Energy Center, Bonifacio Drive,
20	Bonifacio Global City, Taguig City.
21	bolindelo elobal exty lugale exty.
22	
23	
24	ZENAIDA Y. MONSADA
25	SECRETARY